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The

# CHEMIST AND DRUGGIST



For Retailer, Wholesaler and Manufacturer

OCTOBER 26 1963

For skin-healing and skin-care

## VALDERMA

PRODUCTS

are world renowned



### VALDERMA ANTISEPTIC RANGE

Dae Health Laboratories Ltd 17 Berners St. London W 1 Museum 9515

balm · soap · shaving stick  
shaving creams · talc · shampoo  
(Lather & Brushless)



Winter leaves a wise choice of lines to you—and a sound manufacturing and packaging service

ARTHUR H. COX & CO LTD  
BRIGHTON ENGLAND





## Your own body makes the drug that can ease rheumatic pain

A substance manufactured in a gland in the human body has been found to give wonderful relief from pain in many cases of rheumatic complaints—fibrosis, "stiff neck," muscular strains and lumbago.

This substance is **adrenaline**, produced by the adrenal glands at times of crisis and tension, when the body is faced with an emergency and during periods of muscular and athletic activity. So powerful a substance is adrenaline that it is used at a strength of one part in 5,000 to bring relief in cases of muscular rheumatism.

It is easy to understand how adrenaline works once you know the cause of rheumatic pain.

Muscular rheumatism begins when a tiny area of muscle somewhere in your body refuses to obey your brain's commands.

Instead of contracting and relaxing as your brain dictates, the muscle tightens violently into a hard knot and stays that way.

### PAIN

So tightly does the muscle contract that it shuts off its own blood supply, causing pain, the body's distress signal. But the structure of the nervous system is such that this pain is *felt some distance away*. Thus pain is felt in the forearm and wrist may be caused by a "trigger spot" near the elbow. This pain is known as "referred pain" because it is "referred" from the knot of muscle that causes it to the place where it is felt.

To relieve the pain, the essential thing is to relax the cramped muscle—called the "trigger spot"—and restore it to its normal state. This is where adrenaline comes in.

### EFFECT OF ADRENALINE

The function of adrenaline is to prepare the body for emergencies. At times of crisis it makes the body burn up more oxygen, closes down unimportant blood vessels, those of the skin, but stimulates the action of the heart, increases blood flow to muscles, and raises muscle temperature.

A Harley Street specialist decided to test the action of adrenaline on



This diagram shows some of the "trigger spots" responsible for different kinds of rheumatic pain. The chart supplied with your Lloyd's Adrenaline Cream gives details of "trigger spots" all over the body, with instructions for finding and treating them.

**LLOYD'S ADRENALINE CREAM**  
FROM ALL CHEMISTS—3/- TUBES, 5/- AND 7/- JARS



# You stopped to look at this advertisement

So will the readers of the **PEOPLE, DAILY HERALD, DAILY MIRROR, GLASGOW DAILY RECORD, DAILY MAIL, DAILY EXPRESS, NEWS OF THE WORLD, WOMAN'S WEEKLY, WOMAN AND HOME, MY HOME**.

This advertisement and adaptations of it will appear in all these papers between now and the end of December.

But it will be much larger than is shown here. Often it will take up an entire half-page. And the advertisement is a completely new approach which should win many new users and act as a valuable reminder to existing users.

You already know, without doubt, how directly the demand for Lloyd's is influenced by mass communication on this scale. So do please make sure you have stocks of all three sizes, 3/-, 5/- and 7/-.

A small but conspicuous display will ensure that your customers know you have Lloyd's in stock. We display the information: only you can display the product.

**Retail: Tubes 3/-, Jars 5/- and 7/-.**  
**Usual trade discounts.**

## LLOYD'S ADRENALINE CREAM

**HOWARD LLOYD & CO. LTD.,**  
**36-38 Berkeley Sq. London, W.1**

# WE'RE FOREVER BLOWING BOTTLES

We blow bottles by the thousand at Beatsons. Not manually, nowadays, of course. Modern machines produce a continuous stream of bottles, sparkling perfect bottles, in all shapes and sizes. This large-scale production of a wide variety of bottles means that we are always ready to meet your demands for top quality bottles at competitive prices. Ask your wholesaler for Beatson bottles!

**BEATSON**

*Bottles for busy chemists*

**BEATSON, CLARK & CO. LTD · ROTHERHAM · YORKS** Telephone: Rotherham 3188 · Glass Bottle Manufacturers since 1751

## BABY DEPARTMENT



PRODUCED BY THE MAKERS OF  
**COW & GATE MILK FOOD** *The FOOD of ROYAL BABIES*

Our eye-catching attractive advertisements are constantly stimulating new sales which means new customers for you.

In support of these advertisements, most of which are in full colour, we have a wide selection of point-of-sale display material.

Our plastic processed showcards are in full colour and so are our Display Units, the latest of which is featured above.

Please address your enquiries to:

Cow & Gate Ltd. (Dept. 29) Guildford, Surrey

**COW & GATE MILK FOOD**  
*The FOOD of ROYAL BABIES*

# "ZONO" THERM-O-WOOL (REGD.)

2/4d. and 3/10d. PACKETS

FOR SAMPLES WITH TRADE AND WHOLESALE PRICES WRITE TO CARTER BROS. OF SHIPLEY (YORKS).

IT'S  
10 TIMES  
EASIER  
*If you  
modernise with*

**NORDIA**

THE WORLD'S FINEST SYSTEM OF SHOPFITTING

To: NORDIA,  
25 Wellington St.,  
Leeds

Please let me have further information about the  
Nordia System of Selling.

Name.....

Address.....

CD/7

NORDIA DUBLIN ADDRESS—NORDIA SHOPFITTINGS (Ireland) LTD.,  
21 CLARE STREET, DUBLIN 2. Telephone: 63621/2

BURROUGHS

## ABSOLUTE ALCOHOL

JAMES BURROUGH LTD. · VAUXHALL ST. · LONDON S.E.11

TRADE MARK 'VERLOG' SURGICAL  
ELASTIC HOSIERY

Registered Brands: VERLOSHEER, VERLOFABRIK, VERLONET.  
All qualities approved under N.H.S.

BELTS, TRUSSES, SUSPENSORY BANDAGES, ETC.  
THOS. GLOVER & SON, LTD., CARLTON, NOTTINGHAM

Tel.: 248227 (2 lines).

'Grams: Verlog, Nottingham

THE IMPROVED DRY-PAYNE  


**ELECTRICAL  
DEMISTER**

with the new  
PATENT HEAT REFLECTOR

MORE EFFICIENT THAN EVER  
Keep your windows clear of mist in all weathers.  
WILL NOT SAG between supports.  
Also Pegboard Fittings, Turntable and all other  
Display Equipment

Write for details:—

**WHITMARLEY LTD., KNUTSFORD ST., BIRMINGHAM, 12**

## All nylon SUPPORT Stocking

One Chemist has sold 86 pairs in two weeks!

No rubber to perish  
No prescription required  
No measuring necessary

Exempt from purchase tax on the grounds of  
their therapeutic value. Good support, good  
appearance—look like ordinary nylons when  
worn. Sell once to your customer and repeats  
are automatic.

Advertised in National Press.  
Attractive display material.

Four colours, three sizes  
(small, medium and large).

Send for sample, shade card,  
literature, trade prices etc., to:

only

19/-  
retail



**GOLDEN Lady Sheer Relief SUPPORT stockings**

C. J. PLUCKNETT & CO. LTD. · CHARLTON VILLAGE · LONDON, S.E.7

STOCK

# 'Salvelox'

the modern plaster

WHITECROFT (LYDNEY) LTD., WHITECROFT, GLOS.

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## Battle stations!

Victory V will be in the thick of it this season, with a strike-and-strike-again advertising campaign in the nation's press.

More and more people will be trusting in Victory V—and trusting in **you** to have stocks available.

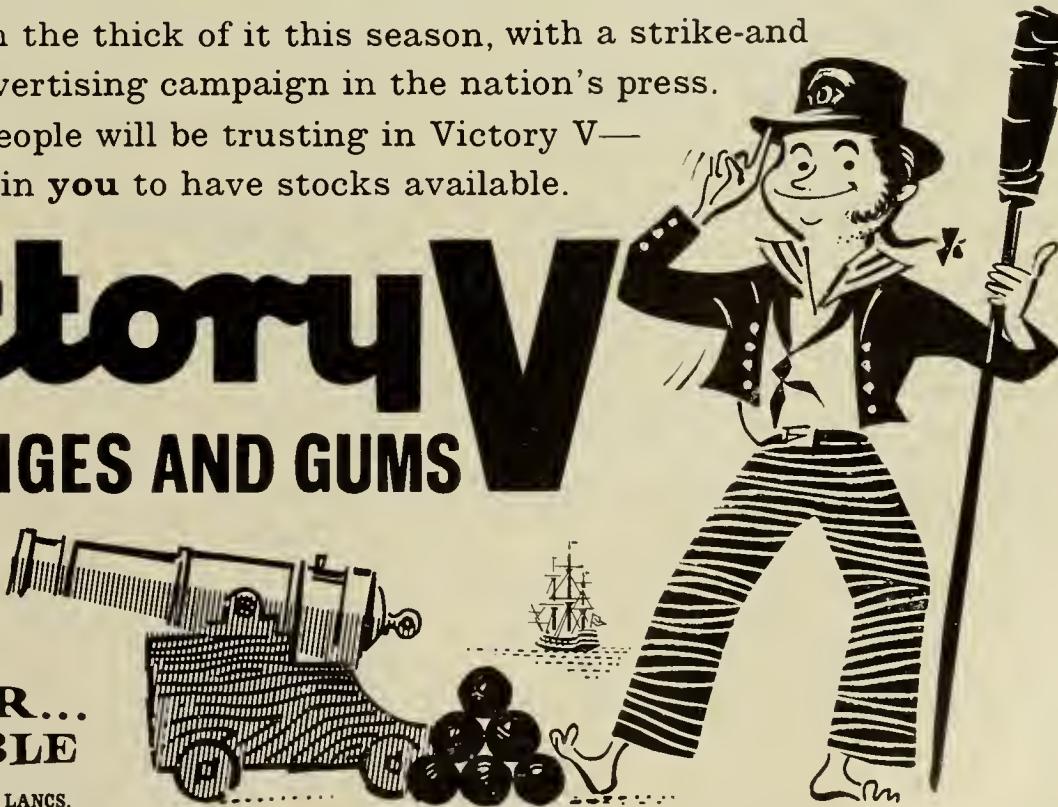
# Victory V

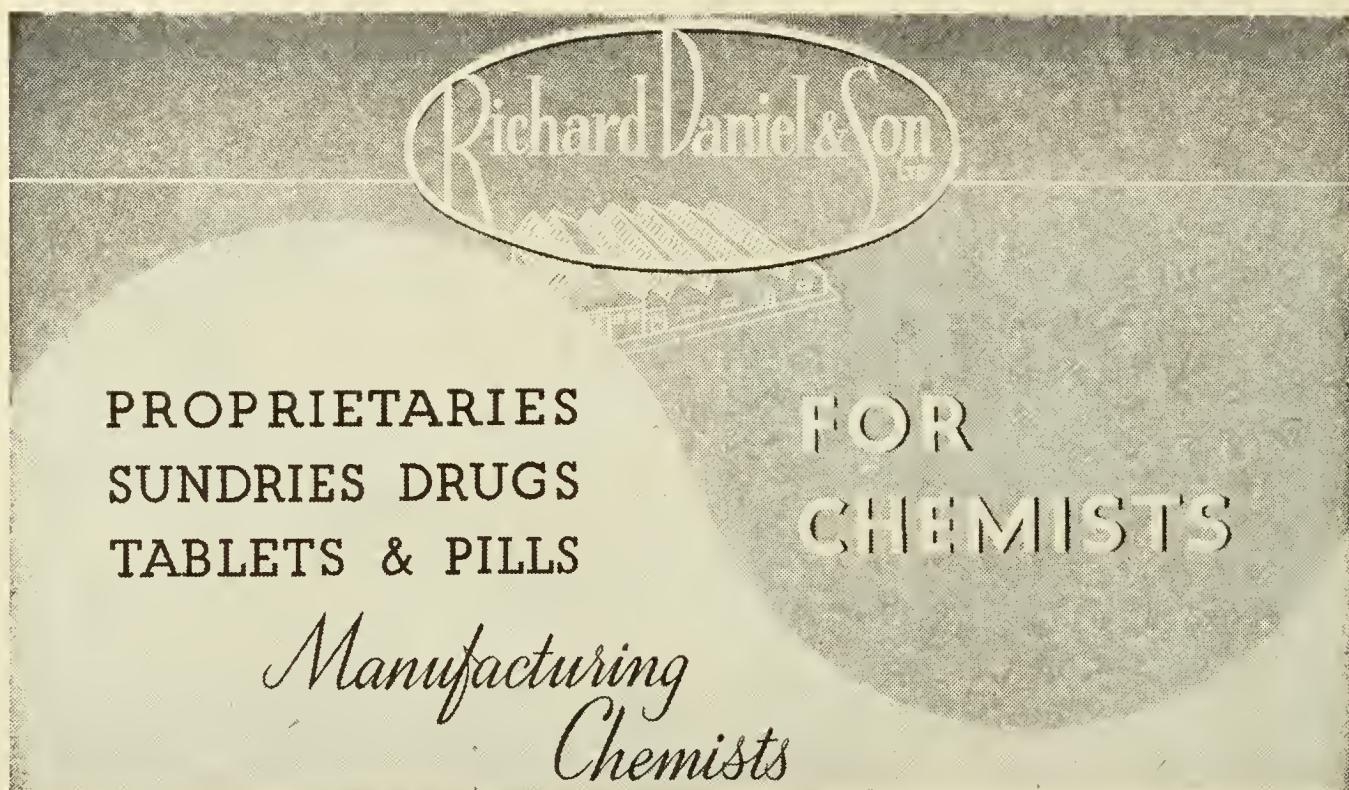
## LOZENGES AND GUMS

— for cold journeys

**PROVED...**  
**POPULAR...**  
**PROFITABLE**

VICTORY FACTORIES · NELSON · LANCS.





HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 40671 (10 lines)  
 BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 5161 (9 lines)  
 NORTH WINGFIELD ROAD, GRASSMOOR. Tel: Holmewood 481 (7 lines)

# Beauvais

## PERFUME ESSENCES

will send you FREE list of tried and tested

## FORMULAS

for Shampoos, Setting Lotions, Frictions, Perfumes, Perfumed Colognes, Hand Creams, Cleansing Creams, Astringent Lotion, Bath Salts, Bath Essence, Hair Cream, Scurf and Dandruff Lotion, After Shave Lotion, Hair Lacquer, etc.

Make your own toilet preparations from these easy tried and tested formulas.

Just fill in your name and address and post to:

**BEAUVAIS (C.D.14)**

14 High Park Road, Kew Gardens, Surrey.

Name.....

Address.....



## BRAND NEW STEEL SHELVING HEAVY GAUGE

Free delivery, N. Scotland, Ireland, I.O.M. 10% extra.

71" high - 34" wide, 12" deep with 6 shelves as illustrated.  
- W.O. or C.O.D. **60/-**

Each shelf will hold over 3 cwt.  
Shelves adjustable every 2". Stove enamelled dark green, White enamel units 50% extra.

| Height | Width | Depth | No. of Shelves | Price | Price each 3 or more | Extra Shelves |
|--------|-------|-------|----------------|-------|----------------------|---------------|
| 71"    | 34"   | 9"    | 6              | 8/-   | 56/-                 | 7/-           |
| 71"    | 34"   | 12"   | 6              | 60/-  | 58/-                 | 8/-           |
| 71"    | 34"   | 15"   | 6              | 69/-  | 67/-                 | 9/6           |
| 71"    | 33½"  | 18"   | 6              | 81/-  | 79/-                 | 11/6          |
| 85"    | 34"   | 12"   | 6              | 68/-  | 66/-                 | 8/-           |
| 85"    | 42"   | 12"   | 6              | 86/-  | 84/-                 | 11/-          |

## HANDY DRAWER UNIT

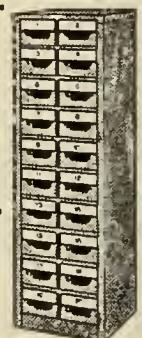
### BRAND NEW

42" high, 13" wide, 12" deep. 20 DRAWERS: 5" wide 3" high, 11 1/4" long. Stove enamelled dark green. Direct from manufacturers. Write now for list of other sizes.

**£7.15.0**

C.W.O. or C.O.D.

Buy direct from the manufacturers  
**ROCHDALE METAL PRODUCTS**  
 Dept. C.D., Shawclough Works, Waterfoot,  
 Rossendale, Lancs. ROSSENDALE 2450  
 Contractors to H.M. Government and United  
 Kingdom Atomic Energy Authority  
 EXPORTERS OF STEEL SHELVING



\*\*\*\*\*

*André Philippe*

LEAD ON!

\*\*\*\*\*

## SPECIAL BIRTHDAY OFFER

**10 Years Old**

**10% BONUS  
for YOU . . . !**

*This Special offer is for our  
No 15 AEROSOL  
PERFUMED  
LACQUER SPRAY*

*The most popular  
hair lacquer  
— A best  
seller!*

cost per dozen  
29/- plus 25% P.T.

Retails 4/3

Minimum order to  
qualify: 6 Dozen



**PLEASE DO NOT DELAY - BE SURE OF YOUR BONUS OFFER**

**SEND THIS COUPON NOW**

**For One  
Month Only**

★ This offer is  
open strictly  
from the 1st  
to the 30th  
November.

Please deliver immediately ..... dozen—less 10% bonus.

**No. 15 AEROSOL PERFUMED LACQUER SPRAY**

Name .....

Address .....

(Block  
Capitals please) .....

**ANDRÉ PHILIPPE LTD.** 71-71B GOWAN AVENUE • FULHAM • LONDON • SW6

We shall be pleased to send you a complete price list on request

Telephone: RENown 2194/2397



**and now for babies,  
children and old people**

# **COLOMYCIN SYRUP**

---

COLOMYCIN is now available in a pleasantly flavoured syrup form most suitable for administration to babies, children and old people. Clinical reports show clearly that COLOMYCIN fills an important gap in the treatment of infections due to Gram-negative organisms.

**Indications**

In children, COLOMYCIN Syrup is especially useful in the treatment of gastrointestinal infections, such as gastro-enteritis, infectious diarrhoea and bacillary dysentery, due to pathogenic *E. coli*, *Salmonellae* and *Shigellae*. Good results have been obtained in treating carrier states. It may also be used in pre-operative bowel preparation.

**Absence of side effects**

COLOMYCIN is well tolerated, even at high dose

levels and is free from toxic side-effects. There have been no cases reported of monilial or staphylococcal superinfection or of diarrhoea following oral administration of the antibiotic.

**COLOMYCIN SYRUP**

(Colistin Sulphate in Syrup form) for gastrointestinal infections, particularly in babies and children. 200 mgms. in 80 ml. Basic N.H.S. price 14/6

*also available:*

**COLOMYCIN TABLETS**

(Colistin Sulphate) for gastrointestinal infections.

**COLOMYCIN INTRAMUSCULAR INJECTIONS**

(Colistin methane sulphonate) for urinary tract and other systemic infections.

*For more detailed information and medical sample, write:*

PHARMAX LIMITED · THAMES ROAD · CRAYFORD · DARTFORD · KENT · Telephone CRAYFORD 21414-5

# Enough to turn the heads of 13 MILLION WOMEN!

(that's how many can see **Color-Glo** ads)

by L'OREAL

\*Big spaces, full colour in the top women's weeklies and a selection of the women's monthly magazines

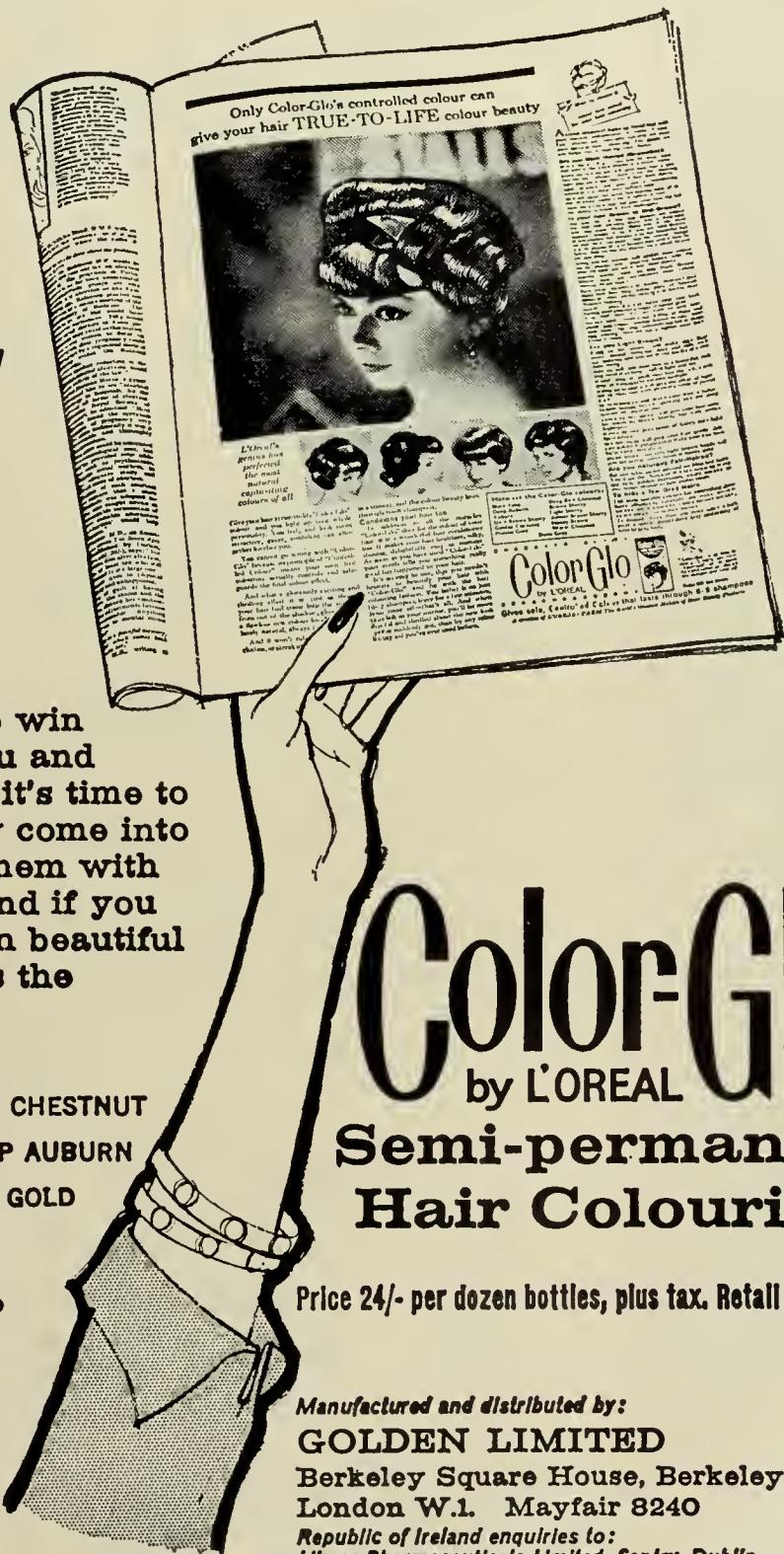
\*Unduplicated readership of nearly 13 million women

That's how Color-Glo advertising sets out to win new customers for you and remind old customers it's time to buy again. When they come into your shop, welcome them with Color-Glo displays. And if you haven't got all thirteen beautiful shades in stock, now's the time to order.

- DEEP RICH CHESTNUT ● WARM CHESTNUT
- BLACK TULIP ● AUBURN ● DEEP AUBURN
- GOLDEN CHESTNUT ● MOLTEN GOLD
- DOVE GREY ● HONEY BROWN

and the famous Color-Glo Brown-Sherry Shades

- DARK BROWN SHERRY
- BROWN SHERRY
- AMBER-BROWN SHERRY
- LIGHT SHERRY



Price 24/- per dozen bottles, plus tax. Retail 3/6 per bottle

Manufactured and distributed by:

**GOLDEN LIMITED**

Berkeley Square House, Berkeley Square,  
London W.1. Mayfair 8240

Republic of Ireland enquiries to:  
Lilmar Pharmaceuticals Limited, Santry, Dublin

STOCK UP FROM THE  
BEST SELLING RANGE OF  
HOT WATER BOTTLES EVER MADE



Backed by  
**MASSIVE ADVERTISING**

★  
**Customers will ask for  
and look for this trade mark in  
your shop**

★  
**YOUR PROFIT ASSURED WITH  
THESE QUALITY HOT WATER BOTTLES**

AVOID IMITATIONS

LOOK FOR THE NAME



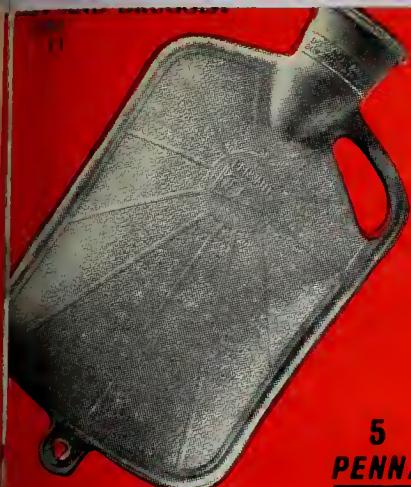
ON THE TOP

*Guaranteed Service  
Guaranteed Delivery*  
**PATA CONTROLLED**  
(FULL PROFIT MARGINS)

See your wholesaler NOW or write to:

**WILLIAM FREEMAN & CO. LTD.,**  
SUBA-SEAL WORKS · STAINCROSS · BARNSLEY · YORKSHIRE

Tel. BARNES 41021 · "SUBA-SEAL" BARNES 41021



5  
**PENNANT**  
6/11 retail



6  
**SUBA-LUXE**  
24/11 retail (regd.)



7  
**SUBA-SEAL**  
**FATHER BEAR**  
8/6 retail



8  
**SUBA-SEAL**  
**STREAMLINE**  
**COT**  
3/11 retail

**1. SUBA-SEAL STANDARD**

The original and genuine Suba-Seal hot water bottle. Unsurpassed value.  
60/- doz. Retail 7/6.

**YOUR PROFIT 30/-**

**2. SUBA-COMET (regd.)**

One side ribbed, one side plain—for choice of gentle or direct heat.  
63/4 doz. Retail 7/11.

**YOUR PROFIT 31/8**

**3. SUBA-SEAL STREAMLINE**

All-over air-spaced ribbing, for long heat retention and close-hugging comfort.  
68/- doz. Retail 8/6.

**YOUR PROFIT 34/-**

**4. SUBA PLASTIC**

High density polyethylene withstands boiling water . . . contributes lightness, strength and eye-appeal. In Blue only.  
55/4 doz. Retail 6/11.

**YOUR PROFIT 27/8**

**5. PENNANT**

Full number 3 size bottle with metal screw stopper, complete with handle.  
55/4 doz. Retail 6/11.

**YOUR PROFIT 27/8**

**6. SUBA-LUXE (regd.)**

Covered in rich Ocelot fabric, with zip fastener . . . and the original Suba-Seal anchored closure.  
199/4 doz. Retail 24/11.

**YOUR PROFIT £4 19s. 8d.**

**7. SUBA-SEAL FATHER BEAR**

Large size bottle for children . . . featuring Suba-Seal anchored leak-proof closure. In Pink or Blue only. 68/- doz. Retail 8/6.

**YOUR PROFIT 34/-**

**8. SUBA-SEAL STREAMLINE COT**

Doubly safe for Baby—with leak-proof seal and protective ribbing. In Pink or Blue only.  
31/4 doz. Retail 3/11.

**YOUR PROFIT 15/8**

**FIX YOUR OWN PRICE**

**HELP YOURSELF TO MEET COMPETITION WITH THESE THREE POPULAR HOT WATER BOTTLES**

**SUBA-STAR (regd.)**. With the exclusive, original Suba-Seal closure—leak-proof, loss-proof, with double safety seal. Non-ribbed, for maximum warmth. 39/- doz.

Broken pack quantities 42/- doz.

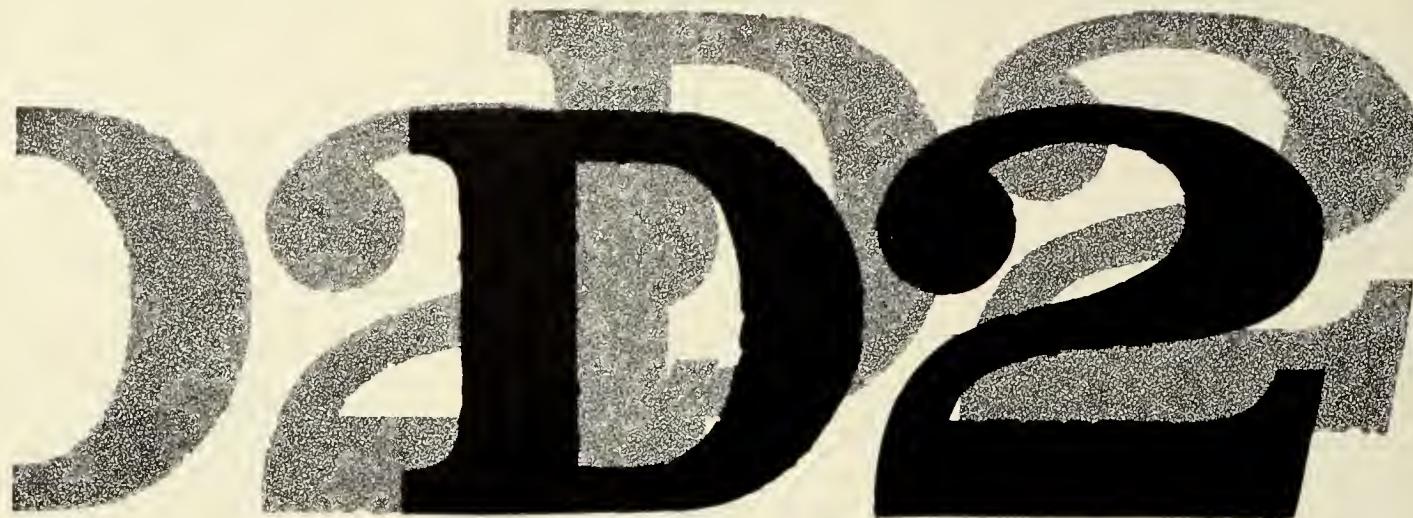
**SUBA-RAY (regd.)**. Top-selling half-ribbed style, with the famous Suba-Seal closure — leak-proof, permanently anchored, no metal parts. 41/- doz. Broken pack quantities 44/- doz.

**BARA (regd.)**. For the customer who prefers a top-class bottle with the conventional screw closure. 39/- doz. Broken pack quantities 42/- doz.

Each model comes in packs of 50 bottles —25 red, 25 blue, or as required.

**FULL SIZE. FULL BRITISH STANDARD SPECIFICATION BSS 1970**





## THE WORLD'S LEADING MANUFACTURER OF VITAMIN D2

CALCIFEROL B.P./U.S.P. XVI 40 MILLION I.U./GRAM.  
WATER MISCIBLE. DRY POWDER 200,000 I.U./GRAM.  
OIL CONCENTRATES TO CUSTOMERS REQUIREMENTS.

For years Vitamins Limited have specialised in research into the physiological and therapeutic activity of vitamins and now produce an unrivalled range of vitamin products.

All enquiries to: Bulk Sales Division, Vitamins Limited, Upper Mall, London, W.6.

VITAMINS FROM VITAMINS LIMITED



## For elegant support . . .

ELASTIC YARN TWO-WAY STRETCH  
ELASTIC HOSIERY

"*Eesiness*"  
REGD.

IN THREE N.H.S. QUALITIES

- Cotton Elastic Yarn.
- Cotton Elastic Yarn Nylon Plated.
- Nylon Elastic Yarn.

Below Knee Stockings. Above Knee Stockings.  
Thigh Stockings. Leggings. Anklets.  
Knee Caps and Thigh Leggings.

**E. SALLIS LTD.**



IN STOCK SIZES

Small, Medium and Large or  
made specially to individual  
measurements.

VERNON WORKS · BASFORD · NOTTINGHAM

Tel: 77841/2

Distributors for N. Ireland: S. Haydock & Co. Ltd., Belfast

# Halina Always in Demand



## Halina 35X

- ★ All metal precision 35 mm.
- ★ f/3.5/45 mm. colour corrected lens.
- ★ Synchronised shutter up to 1/200th sec.

★ Coupled film Transport and exposure counter.

IDEAL FOR

BLACK/WHITE COLOUR

**£7-13-3**

Ever Ready case £1/8/1



## Halina

### SUPER 35X

#### ALL METAL BODY

- ★ RAPID LEVER WIND
- A single stroke advances the film, counts the exposure and cocks the shutter.
- ★ LUMINOUS BRIGHT-LINE FRAMEFINDER
- The subject appears suspended within the lines of the frame.
- ★ HALINA Anastigmat f/3.5/45 mm. Hard Coated. Colour Corrected 3 Element Lens.
- ★ FOUR Speed Shutter—Speeded up to 1/200th sec. and B, with Readily Accessible Speed Setting Ring.

- ★ Synchronised for flash.
- ★ Double Exposure Prevention.
- ★ Coupled Film Transport and Exposure Counter.

**£9-9-0**

Ever Ready case £1/19/6

## Halina Al

- ★ TWO CAMERAS IN ONE
- ★ All metal.
- ★ 2½ x 2½ and 35 mm. on 120 film.
- ★ f/3.5/80 mm. colour corrected lens.
- ★ Synchronised shutter speeded up to 1/100th sec.
- ★ Coupled front lens focusing.

**£7-19-6**

Leather Ever Ready Case £1/19/6

## Halina PET

FINEST VALUE IN 35-mm. CAMERAS

- ★ Achromat 50 mm. lens.
- ★ Three apertures, Dull—bright—sunny.
- ★ Bulb and instantaneous shutter.
- ★ Takes all standard 35 mm. cassettes.
- ★ Synchronised for flash.
- ★ Double exposure prevention.
- ★ Coupled film transport and exposure counter.

IDEAL FOR COLOUR BLACK/WHITE



ALL METAL BODY

**£4-19-6**

Ever Ready case £1/8/1



## Halina

### 6-4

#### TWO-IN-ONE CAMERA

- 2½ x 2½ or 1½ x 1½
- ★ ALL METAL
- ★ Achromatic lens f/8.
- ★ Front lens focusing
- ★ Apertures 8-11-16
- ★ Double exposure prevention
- ★ Synchronised for flash (bulbs)

**£3-19-6**

Ever Ready Case £1/9/11 detachable back

## Halina

### 35 mm. TABLE VIEWER

- ★ The extra large, precision ground twin optically polished lenses are made from the world-famous Chance Pilkington Optical Glass giving perfect enlargements.

- ★ Lenses can be taken out for cleaning purposes.



**32/6** Batteries  
rod extra

## Halina TV VIEWER

- 3 Condensers
- ★ Mains Use
- Accepts all sizes

2 x 2 in. ★ 2½ x 2½ in.

Viewing Area 3½ x 3½ in.

### TWO TONE STYLING

- ★ Two Viewing positions

**£4-19-6**



J. J. SILBER LTD., 11 Northburgh St, London, E.C.1 Telephone: CLErkenwell 8031 (10 lines)



## Halina VICEROY

### TWO CAMERAS IN ONE

- ★ All metal.
- ★ 2½ x 2½ and 35 mm. on 120 film
- ★ Double meniscus f/8 lens.
- ★ Actual size ground glass reflex viewer.
- ★ Synchronised for flash.

Ever Ready Case 18/-

**£3-19-6**

# ...WEALTHY and WISE with Vi-tabs

A health-conscious public is already asking for the latest vitamin pills to reach the British market. And many more will be asking when they see the powerful

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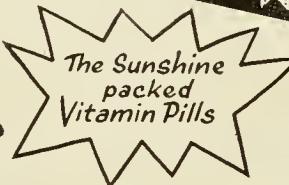
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 and all sections of the drug, pharmaceutical,  
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*Official organ of the Pharmaceutical Society of Ireland  
 and of the Pharmaceutical Society of Northern Ireland*

Volume 180

October 26, 1963

No. 4367

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*Cumulative price list (home copies only): loose supplement.*

### PUBLISHED BY

MORGAN BROTHERS (PUBLISHERS), LTD.,  
 at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

 MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

 MORGAN BROTHERS (PUBLISHERS), LTD. 1963

GLASGOW: 160 Nether Auldhause Road, S.3. Phone: Langside 2679.  
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# The CHEMIST AND DRUGGIST

Volume 180

OCTOBER 26, 1963

No. 4367

## Antioxidants in Foods

### FOOD STANDARDS COMMITTEE REPORT

THE Food Standards Committee's report on Antioxidants in Food (H.M. Stationery Office, price 1s. 3d.), published October 23, recommends that antioxidants should be prohibited in infant foods.

The Committee was asked to review the Antioxidants in Food Regulations 1958, and corresponding Scottish regulations, and has decided that there is no need for any major amendment. It recommends, however, that butylated hydroxytoluene should be withdrawn from the list of permitted antioxidants. Another suggestion is that preparations containing over 100,000 international units of vitamin A per gm. should be permitted to contain 10 parts per million of BHA (butylated hydroxyanisole) for each 1,000 international units of vitamin A per gm. of that preparation. The Committee rejected representations that dinonyl citrate, nordihydroguaiaretic acid (NDGA), erythorbic acid (isoascorbic acid) and its salts, and diphenylamine should be permitted antioxidants, but recommended that ethoxyquin (1,2 dihydro-6-ethoxy-2,2,4-trimethylquinoline) should be allowed at a level of up to 2 p.p.m. on apples and pears. The Committee states that the question of the possible leaching of small quantities of antioxidants from plastic and other containers had been brought to its notice and the Ministers had requested a general review of the question of additives adventitiously introduced into food in the course of preparation and processing.

Representations concerning recommendations in the report should be addressed to the assistant secretary, Food Standards Division, Ministry of Agriculture, Fisheries and Food, Great Westminster House, Horseferry Road, London, S.W.1, to arrive not later than December 31.

## New Drugs Criticised

### "PRESCRIBERS' JOURNAL" COMMENTS

THE current issue of *Prescribers' Journal* contains critical reviews of medication during pregnancy, unwanted and dangerous interactions between drugs, and treatments of acne vulgaris. The conclusion of the author of the last article (Dr. I. B. Sneddon) is that "although topical remedies may not be entirely effective, the fact that someone is taking an interest in their [adolescents'] problem may in itself be of great benefit. Discussing new drugs, *Prescribers' Journal* says that experi-

ence with methyldopa has confirmed its usefulness as an antihypertensive in a wide range of patients, but that it should only be used on carefully selected patients "who are properly followed up." Referring to compound preparations containing ethoheptazine citrate (Zactirin, Zactipar and Equagasic), it is regretted that ethoheptazine has not been marketed on its own. Following earlier advice that, when two or more drugs are to be used, they should usually be prescribed separately, the *Journal* finds that the compound preparations "cannot be recommended." Considering Chymoral tablets (a combination of chymotrypsin and trypsin), the conclusion is that, although advocated for a wide variety of conditions, "there is no reliable evidence at present that Chymoral has any therapeutic effect."

## "Value-added" Tax

### F.B.I. WANTS LESS DIRECT TAXATION

WOULD exports and economic growth of the United Kingdom be assisted by the adoption of a value added turnover tax and if so to what extent? Those were the questions a working party of the Federation of British Industries set themselves recently. They decided that only a thorough review of the entire fiscal system could hope to answer the questions authoritatively. Since the terms of reference of the Richardson Committee set up by the Chancellor

after the Budget in April preclude such a review, the best course meanwhile is considered to be to move gradually towards more indirect and less direct taxation. The F.B.I. working party is convinced that a value-added tax levied yearly on net turnover (not in operation in any country in the world) would face great obstacles, and that it would be a mistake to introduce it. Of the various turnover taxes actually in operation, "the French value-added tax (T.V.A.) is the best." Apart from the administrative differences between the taxes, purchase tax could become not very different from the T.V.A. if its coverage and rates were altered. "So far as exports are concerned, purchase tax is preferable to the T.V.A. and the special incentive effect often claimed for the T.V.A. seems illusory." The working party does not believe that companies would prefer to pay tax and reclaim it later rather than never to pay it at all. Whatever the advantages for economic growth the T.V.A. may possess which purchase tax at present may not have, they could be achieved by broadening the base of purchase tax. The report is available from the F.B.I., 21 Tothill Street, London, S.W.1, price 6s.

## Irregular Prescribing

### GLASGOW DOCTOR "FINED"

A DECISION by Glasgow Executive Council that £250 should be withheld from the remuneration of a doctor who had issued irregular prescriptions for stimulant drugs, has been confirmed by the Secretary of State for Scotland. It was alleged that the doctor had prescribed the drugs for a woman and her mother-in-law, the prescriptions being collected, and the drugs retained by the woman. The practitioner, who has not



**RETIREMENT PRESENTATION:** Miss Jessie Herkes receives from Mr. D. Rainy Brown (chairman, J. F. Macfarlan & Co., Ltd.), a farewell gift from her colleagues. Miss Herkes recently retired after forty-seven years with companies in the Edinburgh Pharmaceutical Industries Group, most of them with Messrs. Macfarlan, with whom her father also served for over thirty years. Also in the group are Mr. N. Rainy Brown, Mr. D. R. Wood and Miss A. Sinclair.

appealed, agreed that the quantities ordered were in excess of those necessary even for both patients and admitted to maintaining no record of the prescriptions.

## IRISH NEWS

### THE REPUBLIC

## North/South Discussions

### AGREEMENT ON PROPER PROFIT LEVELS

REPRESENTATIVES of the Ulster Chemists' Association met members of the committee of the Irish Drug Association in Dublin on October 10. From Belfast came Messrs. W. H. Boyd, J. A. Brown, J. K. McGregor and W. J. Moffett. They were welcomed by Mr. A. Thornton (I.D.A. president). Discussion took place on profit margins allowed by pharmaceutical and allied manufacturers, and unanimous agreement was reached to request 33½ per cent. as "a necessary minimum" on all retail lines. It was agreed that members could take advantage of Coldrex bonus terms, now that the manufacturers had again confined distribution to pharmaceutical chemists. The I.D.A. representatives expressed opposition to the proposed sampling scheme by Vick International, Ltd., in accordance with the policy recently suggested by the Pharmaceutical Society of Great Britain. It was agreed to hold the next meeting in Northern Ireland in March 1964.

## Drug Association

### LIMERICK MEETING OF BRANCHES

BRANCHES of the Irish Drug Association, meeting in Limerick on September 22, requested the I.D.A. committee to recommend that members operate the turnover tax on individual items on the scale already advised, rather than on the aggregate amount of purchases. It was suggested that display cards setting out the tax be for staff use only, open display possibly creating a wrong impression of chemist's prices. Other members held that open display would be the easiest way of dealing with difficult customers. It was agreed that medical representatives calling only on doctors should be asked also to call "as a matter of courtesy" on pharmacists in the area both to inform them of new products and other developments and to leave samples. The meeting also agreed that the retail prices of all ampoules, except insulin, should be adjusted to allow a profit of 33½ per cent. for all small purchases, ex wholesaler. The difficulty of storage at correct temperature, was one of the arguments advanced in favour of the motion. Cork City and County Chemists' Association, meeting on October 2, agreed to accept the I.D.A. recommendations in relation to the operation of the tax.

## Hospital Pharmacists

### ASSOCIATION'S ANNUAL MEETING

THE outgoing chairman of the Association of Hospital and Public Pharmacists (Mr. R. J. Power) has made a spirited appeal to hospital authorities to ensure that the services of pharmacists are fully utilised in implementing

the Dangerous Drugs and Poisons Acts "now that the State has acknowledged their responsible functions." Speaking at the Association's annual meeting in Dublin on September 29 he said that pharmacists should be the obvious people to advise hospital authorities on the most efficient methods of complying with the regulations. Apart from the obvious risks of having medicines handled and dispensed by persons not aware of the properties and storage conditions of basic drugs, it was highly undesirable in the public interest that unqualified people should have access to dangerous drugs' cupboards. The Association, he said, felt it essential to have finally established the status of part-time pharmacists. A pharmacist who provides a limited service in hospitals must be regarded as much an officer of the hospital as those in full-time service and accordingly he should qualify for the full conditions of employment, particularly in regard to salary and holidays. Having reviewed the progress made during the year, Mr. Power said the greatest achievement had been improvement of the salary scales for hospital pharmacists. The following officers were elected for the year.—Chairman, Mrs. M. Twomey, Dublin; Vice-chairman, P. Fullam, Naas; Secretary, Miss A. McCarthy, Dublin; Treasurer, Mrs. E. Browne.

### THE NORTH

## Retail Salaries

### ARBITRATION ON EMPLOYEE'S CLAIM

SALARY claims, made on behalf of members of the Associates' Section, Ulster Chemists' Association, are going to arbitration. That was agreed by the Joint Council, which comprises the Associates' Section (representing employees) and the U.C.A. (representing employers), at a meeting on September 26 and was confirmed by the Associates' Committee on October 8. The employers' offer of increased scales relating to categories I (students); II (persons having completed a recognised course of practical training but not qualified as pharmacists); and V (pharmacists acting in the capacity of managers for executors and superintendents of corporate bodies), were accepted by the employees' side. New scales for locums, rota payments and working hours were also accepted, but the offers relating to categories III (pharmacists) and IV (pharmacist or branch managers) fell short of the Associates' expectations and were rejected. The employers' representatives have stated that they are withdrawing their offer on all categories and will fight their case on the scale agreed in May 1960. The Associates' Committee has reserved the right to submit a revised claim in view of prospective changes in hospital pharmacists' salaries.

## IRISH BREVITIES

### THE REPUBLIC

TICKETS (price £2 2s. each) for the Benevolent Fund dance of the Pharmaceutical Society of Ireland, Dublin, December 3, may be obtained from any member of the Benevolent Fund Com-

mittee, from the treasurer (Miss Colette McIntyre, c/o College of Pharmacy, 18 Shrewsbury Road, Dublin), or from the secretary (Miss Elizabeth Smith, c/o 2 Emmet Road, Kilmainham, Dublin).

### THE NORTH

PRESCRIPTIONS dispensed in Northern Ireland during July numbered 520,106 (368,914 forms). The total cost was £287,639 (£234,352 net), an average of 132.73d. per prescription (108.14d. net).

A SUCCESSFUL barn dance with a barbecue supper, organised by the Associates' Section, Ulster Chemists' Association, was held in the stables at Glen-



AT A BARBECUE: Pictured at the barbecue and dance (see paragraph) are members of the committee of the Associates' Section, Ulster Chemists' Association. Left to right: R. G. P. McMullan (chairman); Rosemary Greene; Donal Anglon; Irene Hughes (secretary); Harvey Galbraith (past-chairman); Trevor Thompson (vice-chairman) and Mrs. Thompson.

machan Tower hotel, Belfast, on October 16. The stables, complete with horse-boxes, made an ideal setting for the event.

## OVERSEAS NEWS

### BRAZIL

## Pharmaceutical Manufacture

THE President of Brazil (Sr. Goulart) signed a decree recently establishing a Grupo Executivo da Indústria Farmacéutica (GEIFAR), which will control all private production of pharmaceutical goods and will also supervise the re-equipment of official laboratories with the aim of enabling the production of essential medicines and drugs at low cost and an anticipated lowering in the cost of items produced by private manufacture.

### ITALY

## Opposition to Drug Patents Bill

ACCORDING to a report in the *Financial Times*, October 16, a new association, Assofarma, has been formed by Italy's medium, small and very small pharmaceutical industries mainly for the purpose of opposing the Bill establishing the right to take out patents on drugs and their manufacturing processes (see *C. & D.*, June 1, p. 620). The new association results from the merger of five trade associations. There now are two main pharmaceutical associations, the Farmunione, of which the large industries are members and the new Assofarma. The small pharmaceutical enterprises, which are known as "packers," claim that the introduction of patenting would result in a great increase in the price of most drugs and in a big outflow of exchange for royalty payments. The "packers" appear to be prepared to accept, even though very reluctantly, the patenting of drug manufacturing processes, but not product patenting.

## NEWS IN BRIEF

THE Purchasing Officers' Association has elected Mr. A. Neville Meier its President.

THE retail price index at September 17 was 103.3, compared with 103 at August 13 (January 16, 1962 = 100).

A LAYMAN'S guide (price 3s. 6d.) to facilitate understanding of the Contracts of Employment Act, 1963, has just been published by the Industrial Welfare Society, 48 Bryanston Square, London, W.1.

THE 1963 prize-winners of the Feldberg Foundation for German-English scientific exchange for experimental medical research are Professor Dr. W. Hasselbach (Max Planck Institute of Physiology, Heidelberg) and Dr. H. E. Huxley, F.R.S. (Medical Research Council's laboratory of molecular biology, Cambridge).

OVER eighty delegates attended the annual conference of the National Association of Co-operative Superintendent Chemists held in Folkestone, Kent, October 6-11. Besides lectures, discussions and social events, the programme included a visit to the plant of Messrs. Pfizer, Ltd., where the manufacture of Terramycin was seen.

WITH the purpose of aiding medical research in Latin America Dr. P. J. Randle (lecturer in biochemistry, University of Cambridge) is making a six-week visit to medical centres in Argentina and Chile for the British Council. The visit, comprising lectures and laboratory tours, is concerned with research on insulin and diabetes.

MEETING in London on October 17, the staff side, Pharmaceutical Whitley Council committee "C," discussed the preparation of its case to be presented at the Industrial Court hearing on hospital pharmacists' salaries. The secretary reported that the Court's terms of reference had been agreed, but that the date of the hearing was not yet known.

A NEW leaflet on the advertising of antiseptics and disinfectants is available free of charge from the Advertising Association, 1 Bell Yard, London, W.C.2. It provides for those concerned in creating or publishing advertisements a useful guide on the general uses of antiseptics and disinfectants, their compounds, and the claims which can reasonably be made for them, as well as those which should be avoided.

THE 1963 Nobel prize for medicine (worth a record £18,270) has been awarded jointly to Sir John Eccles (professor of physiology, Canberra University), Professor Alan Hodgkin (Royal Society research professor in physiology, Cambridge) and Professor Andrew Huxley (Jodrell professor of physiology, University College, London), for discoveries concerning the ionic mechanisms involved in nerve impulse transmission.

## SPORT

Golf.—LIVERPOOL CHEMISTS' GOLFING SOCIETY. A meeting was held at Southport and Ainsdale golf club on September 17. Results: Captain's prize, Dr. Hardman, 85 (12) 73. R. Sunner prize, P. Woodhead, 80 (5) 75. Liverpool Chemists' Golfing Society prize, J. Smith, 79 (3) 76.

## TOPICAL REFLECTIONS

By Xrayser

## Educational grants

It must be some little time since a report of the proceedings of a meeting of the Council of the Pharmaceutical Society was so comprehensive as to necessitate its publication in two separate issues. I have no complaint on that score. Indeed, if the Council is to justify its proposal for increased retention fees it is essential to keep the membership fully informed in the matter of its activities. A report such as that published on p. 422 provided some indication of the views of a few members of Council, affording the pharmacist in Land's End or the Outer Hebrides an opportunity of handsomely agreeing or violently disagreeing with the opinions expressed. Only by the publication of such detail may we learn of "some village Hampden that with dauntless breast the little tyrant of his fields withstood." In that, also, lies the answer to the charge of apathy, for it is difficult to sustain interest if information is scarce. In all probability Mr. Heseltine and Mr. Howells, in opposing the granting of four separate sums of £1,000 to universities and colleges, were expressing the feelings of quite a large section of the membership at the present time, for they have been made to understand that only the most drastic measures can correct the current financial difficulties. They may feel, as the objectors obviously felt, that the recommendation erred on the side of generosity, in what Mr. Heseltine described as abnormal circumstances. Mr. Grainger's defence was that the spending of money on education was one of the objects of the Charter, though the wording is not quite so specific as that. The Charter says that one of its objects is to *promote* pharmaceutical education, but that need not involve largesse in times of financial stress. Mr. Grainger also said that the need for pharmaceutical research was never greater, and it would be inappropriate if the parent body of the profession closed its purse "when pharmacy was beginning to emerge from its rather unfortunate past level of association with some of the menial trades." Such as? And in what way? There is a great deal to be said for having a proper pride in one's profession, but I confess to being unable to grasp the meaning of the remark.

## Future policy

Mr. C. W. Maplethorpe (the Society's president), on the same subject, and supporting the grants, reminded the Council that a report should be prepared on future policy regarding scholarships and grants for education. It is, of course, not in dispute that the Society should encourage education and research, as Mr. Heseltine pointed out. It was the timing of the grants that was the matter at issue. But it is clear that some hard thinking will have to be done in the matter of scholarships, for it was reported that there were no entries for the Council prizes in 1963, for the Pereira, silver or bronze medals, or for the scholarships examination. The whole structure of those honours obviously demands a different approach, and a new basis related to the changed educational conditions of today. There must be some reason for their no longer being attractive. In the list of winners in past years are names of considerable fame in the annals of pharmacy, the subsequent careers of many indicating that their early success was merited.

## Threat

It appears from your news item on p. 409 that the negotiations between the Ministry of Health and the Central N.H.S. (Chemist Contractors) Committee are not progressing quite so favourably as one had hoped. Indeed, the report states that an attempt is being made to resolve serious disagreement over the principle of determining notional salaries. There must, inevitably, be a feeling of disappointment, for the impression had been given that progress was being made. A rigid and uncompromising attitude on the part of the Ministry, as reported by Mr. H. G. Moss at Durham, is, of course, not a new feature of negotiations between that body and our representatives. One wonders what the effect might be of a rigid and uncompromising attitude on the part of the chemists. At the moment of writing it looks as though yet another Minister of Health may be embarking on the seemingly insoluble task of appreciating pharmacy.

## PHARMACEUTICAL SOCIETY AND N.P.U.

### North-eastern branches discuss their relationship

ABOUT eighty members attended the fifth annual joint meeting of the four North-eastern branches of the Pharmaceutical Society held at Durham City on September 25, when the subject for discussion was "The Pharmaceutical Society and the National Pharmaceutical Union—How can more co-operation be achieved?" The speakers were Mr. G. T. M. David (a member of the N.P.U. Executive) and Mr. Tom Reid (a member of the Society's Council); the Newcastle Branch chairman (Mr. D. L. Livingstone) presided.

MR. DAVID said that the N.P.U. agreed with the Society in the basic aim of attaining full professional status and the improved remuneration attending it: the job of the Society was one of principles whereas the N.P.U. were concerned with the practicalities of every day living, a protective organisation for all private pharmacists. The report of the Committee on the General Practice of Pharmacy had been welcomed by the N.P.U. as imaginative, but some recommendations, if acted upon immediately, would cause much hardship. In education, the two organisations differed, he thought, only in emphasis: many thought that more emphasis should be given to practical aspects. In ethics they were in complete agreement with the Society. As the main professional work was in the National Health Service, representation of the Society on the negotiating committee would be desirable said the speaker; unity was not a new idea but each pharmacist must make individual effort to show that all aspects of retail pharmacy could be performed in a professional manner.

#### Problem of the Apathetic

MR. REID spoke of the difficulty in achieving unity. The majority of pharmacists showed little interest in their local meetings and the problem was to find ways of reaching the apathetic 80 or 90 per cent. Today's problems were largely economic and after the Ministry of Health's remuneration cuts it was inevitable that scapegoats should be sought. "It is a not unusual human weakness that we are less objective in looking at our own faults." Much could be done at local level by presenting an image of pharmacy that marked pharmacists as being different and better than others engaged in trade. There was also much to be gained by modern methods in a changing economy combined with a true sense of professional responsibility and co-operation with colleagues. Unity was vital, but it was unrealistic to want one organisation only. That was certain to leave out minority groups, which in turn would grow into new organisations. Mr. Reid also looked forward to the Society being represented on the Central N.H.S. (Chemist Contractors) Committee. The Society was willing to help wherever it could; it had a prestige value, but there was no desire to dominate. "There is not the gulf between the two organisations that some would have us to believe,

both are dependent on the same things and it would be folly not to work together."

The increase in the retention fee came in for sharp criticism during the discussion. MR. J. BUNDRED (Secretary, Sunderland Branch) thought that a full statement should have been given earlier or at least sent to branch secretaries so that they could answer questions from their members. He also thought that Council meetings should be reported in more detail, as did MR. M. CONWAY, Sunderland, who said much space in the Society's journal was given to less important topics. Whilst agreeing that an earlier and full report would have been helpful, MR. REID was sure that a verbatim report on that or any occasion would not be possible or desirable. A fuller report of Council meetings, giving the background of important decisions, was one of the reasons for additional income, for to increase the editorial pages without a balancing increase in advertisement revenue required money. He then gave a detailed explanation of the reasons for the increase in the retention fee. The reserves had been depleted by deficits over the last few years and those had to be made good over a period: services to members would be improved, including public relations, both internally and externally, and the Department of Pharmaceutical Sciences. Surely it was not the amount alone that mattered, but rather that the members should receive full

value and recognise that that was so. MR. DAVID said that if space was available there could be longer reports of the meeting of the N.P.U. Executive.

A TEESIDE MEMBER felt that only leadership could disperse apathy—quick actions but with reasons rapidly given. MR. REID was of the opinion that apathy or unity could not come only from the top: members must support their elected leaders and be loyal to their profession.

MR. R. J. KNIBB, Durham, thought that the majority of members were keen to be professional, but could not do it on the present N.H.S. terms. This was a point, replied MR. DAVID, that they had tried to impress on the Ministry, who were only prepared to pay for the actual time taken in N.H.S. work. MR. R. V. ATKINS, Newcastle, thought the weakness of the contract lay in the lack of a right to appeal against the Ministry's arbitrary decisions. MR. REID said that the Minister insisted that only his Ministry could decide how Government money could be spent.

MR. R. DICKINSON (Secretary, Newcastle Branch) stressed the importance of an internal campaign by both organisations to keep members informed. MR. REED said that the Society was anxious to improve internal public relations, and personal communications to members on important measures were an essential method of achieving that end. MR. DAVID said that the N.P.U. pink supplement tried to give members as much help as possible. MR. T. GOULD (Secretary, Teeside Branch) thanked the speakers.

## AGRICULTURAL CHEMICALS

### More safe use recommendations

THE Ministry of Agriculture and Fisheries has issued revised recommendations for the safe use of dinoseb (DNBP or 2-(1,methyl-n-propyl)4,6-dinitrophenol) and fluoracetamide when used for agricultural and horticultural purposes. Recommendations in respect of dipterex (stored products use) issued in 1957 are also replaced by recommendations headed:—Trichlorphon (2,2,2-trichloro-1-hydroxyethyl phosphate) (veterinary use and food storage practice).

Dinoseb is controlled by Agriculture (Poisonous Substances) Regulations as a Second Schedule, Part II substance and the regulations require an operator using such substances to wear certain protective clothing. Other precautions that should be taken and should appear on the label are:—

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

REMOVE heavily contaminated clothing immediately.

WASH SPLASHES from skin or eyes immediately.

AVOID ALL CONTACT BY MOUTH.

AVOID WORKING IN SPRAY MIST.

WASH HANDS AND EXPOSED SKIN before eating, drinking or smoking and after work.

The regulations do not apply to dinoseb when used as an insecticide if the concentrated substance does not contain more than 5 per cent. by weight of dinoseb. The Ministry also recommend that the following precautions should

also appear on the label to avoid hazards to children, the general public and livestock:—

KEEP UNPROTECTED PERSONS OUT of treated areas for at least one day.

DANGEROUS TO LIVESTOCK. Keep all livestock out of treated areas for at least ten days.

DANGEROUS TO FISH. Do not contaminate ponds, waterways and ditches with chemical or used container.

The fluoracetamide recommendations are provisional and are being reviewed at the end of the 1963 season. The recommendations in respect of trichlorphon apply only to the use of the substance as a varnish for fly control with an insecticidal content of not more than 6.5 per cent. It is recommended that for the protection of operators labels should include the following:—

WASH SPLASHES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

As a general precautionary measure the following advice should also be included:—

DO NOT CONTAMINATE PONDS, WATERWAYS AND DITCHES with chemical or used container.

Trichlorphon varnish should not be applied to those parts of walls and other surfaces with which children or animals might come into bodily contact or lick.

Store out of reach of children and domestic animals.

DISPOSE of container safely.

# PUBLIC ACCOUNTS COMMITTEE

## Evidence given by Permanent Secretary

THE proceedings of the Committee of Public Accounts and evidence that led to the first, second and third reports during the 1962-63 session, have been published (H.M. Stationery Office, price 31s.). The evidence reveals that SIR BRUCE FRASER (Permanent Secretary, Ministry of Health) told the Committee that, if "unbranded equivalents" had been prescribed on the National Health Service, there would have been a saving of about £800,000 and that the savings that might be achieved on five preparations (Codis, Panadol, Serpasil, sodium Amytal Pulvules and Solprin) accounted for about two-thirds of that figure. On the basis of 1961 usage, the saving in respect of Panadol would have been £260,000, of Serpasil £125,000, of Codis £88,000, of sodium Amytal Pulvules £57,000, and of Solprin £58,000. MR. R. E. C. JOHNSON (Secretary, Scottish Home and Health Department) said that the saving in respect of the Scottish Department would have been of the order of £80,000.

### Advertising

MR. DOUGLAS HOUGHTON (chairman of the Committee) asked whether the Ministry kept track of the advertising of proprietary drugs; he said "We hear doctors saying sometimes that they are bombarded with it. Have you got a collection of this advertising material? Are you watching the moves of the proprietary drug manufacturers all the time and seeing the sort of propaganda they are putting out, and do you counter it in any way? Do you feel that you are engaged in some kind of contest between the proprietary drug salesman and the need to use the unbranded equivalents wherever possible?" — SIR BRUCE FRASER: "We certainly are aware of the publicity material that they put out because they tend to put it out to virtually every doctor in the country, and, of course, we are easily enough able to get hold of it, if only because we have a number of doctors on our own staff. I think it is just a little misleading to think of this simply in terms of a war, because much of the publicity material that the drug firms put out is necessary and valuable as a matter of technical information, and, of course, quite ordinary commercial prudence. . . . There is a contest here for the doctor's mind, but it is not a contest . . . which is to be won, in my view, by the Ministry simply by spending lots more money on playing the game in the same sort of way as the drug firms do, because the objectives are a bit different." Sir Bruce later told the Committee that the Ministry had had many talks with the industry, and that there was a code of "quasi-ethical behaviour on advertising to which the industry binds itself." When the Ministry saw examples that appeared to contravene that code, they brought them to the notice of the trade association. Breaches were rare. Later Sir Bruce dealt at length with the situation that

existed regarding paracetamol when the Committee was sitting [February 26]. The manufacturers had indicated that they would be willing to reconsider the price of Panadol when there was an official equivalent product for the drug, though they were not bound to do so by the terms of the voluntary price-regulation scheme, because the drug was protected by the export criterion.

Asked if the Ministry had any control over the official books of reference, he replied that technically the answer was "No," but the Ministry sometimes brought to the attention of those who were responsible "the fact that it would not be a bad thing if something were included; but we have no powers or responsibilities for that at all." Sir Bruce agreed with Mr. Arbuthnot that the advertising to doctors could explain the success of Panadol compared with the unbranded equivalent, and it was common experience that the sales of a successful drug carried the costs of research conducted by the organisation "on things other than that particular drug." The company had indicated that they had spent around £116,000 on research during the previous year. Mr. Arbuthnot: "And yet you are paying over the odds to the tune of £200,000; so that there is £40,000 spare here. . . . Have you any information as to what proportion of the firm's products are sold through the National Health Service, and what proportion of them are sold by other sales?" SIR BRUCE: "I am not certain that we have that information." — MR. ARBUTHNOT: "So that you do not really know what proportion of the cost of their research is borne by the National Health Service, because some of it may be borne by other sales?" — "Some of it may indeed be borne by over-the-counter sales, yes."

### Arguments Not Accepted

MR. T. DALYELL wanted to know the annual usage of Serpasil in the National Health Service and was told that, in England and Wales, it was about £214,000, and that the product was about twice the price of the unbranded equivalent. The company had put forward a number of arguments, which Sir Bruce did not wholly accept, as to why they thought the price was reasonable, and they had refused to adjust their prices. The Ministry was paying about three times as much as it thought it should for Butazolidin, and a reduction of the price to that of the equivalent would save the service an estimated £140,000 a year. SIR BRUCE reported that the Ministry was approaching the company again, "in order to see what further reduction they could get." Later Mr. Arbuthnot asked "If you were to scupper the voluntary price-regulation scheme, would it not do a great deal of damage to the National Health Service and the Ministry?" — Sir Bruce: "Yes, Sir. The V.P.R.S. is, like so many things, imperfect in many ways, but

on the whole I am certain that it has served the public interest well." Asked if any information could be obtained from the Ministry about details of costs under the part-B negotiations, the Permanent Secretary of the Ministry said, "They were Parke Davis, Beechams, Pharmethicals and Pharmax." SIR SAMUEL STOREY asked if the companies had given any information as to profits, and if it had been examined by the accountants. SIR BRUCE: "Yes, we have had full negotiations with them."

SIR SAMUEL: And were you satisfied with their level of profits? — "Oh, no. We had discussions with all four of them, and in the case of the biggest of them we got a nice fat reduction." "And who were the four exempt private companies?" — "Burroughs Wellcome, Calmic, Allied Laboratories and West Pharmaceuticals." Sir Samuel then asked if the Ministry had been able to get any information as to their level of profits. Sir Bruce replied: "I think we have not yet had occasion to do part-B negotiations; there were no statistics." — "And there is no other means by which you can get the necessary information?" — "Not the full details, no."

MR. CLEDWYN HUGHES: "You have had a lot of difficulty and a tough time trying to obtain those trading profits since the matter was first taken up by the Committee?" — "Not so much in obtaining the figures as in the interpretation of them. That is where the difficulty starts." When asked if he was satisfied with the progress over the whole field, Sir Bruce said the answer must be "No." For example, I am not at all satisfied about CIBA. But that we are on the right lines, that the V.P.R.S. in its modified form has done things for us which it would not have done for us if we had not modified it, yes, I am satisfied."

## BRANCH EVENTS

### ROMFORD

#### Assessment of New Drugs

AT its first meeting of the winter session, Romford Branch of the Pharmaceutical Society had as speaker DR. G. F. SOMERS (Lilly Research Laboratories, Ltd.) on "The Pharmacological Assessment of New Drugs." Discussion followed, during which the speaker pointed out that tests on animals could never guarantee absolute safety in man. Chronic toxicity, apart from carcinogenesis, could be assessed in a relatively short time, provided the dose was high enough. In pregnancy the danger period for teratogenicity in humans was from the thirty-second to fifty-sixth day. There was therefore a risk that a woman might take a drug during that period, not realising that she was pregnant. There was no evidence that thalidomide had any effect on chromosomes, so probably abnormalities would not be transferred to future generations.

## LEGAL REPORTS

### Interim Injunction

TRADING as Atlas Chemicals, Technichem (Winton), Ltd., Wimborne Road, Bournemouth, Hants, submitted to an interim injunction in the High Court, London, October 18, restraining them from selling or advertising hair lacquer or like goods not manufactured by Nichol Beauty Products, Ltd., London, N.14, under the trade mark Glossy or similar trade mark, and from "passing off" such goods. For Messrs. Technichem it was said that the company submitted to the injunction until the trial of the pending action between the parties or further order to save costs. They made no admissions. They had no desire to have their product confused with that of the plaintiff company.

### Tetracycline Patents

AN application by Pfizer Corporation for injunctions to restrain D.D.S.A. Pharmaceuticals, Ltd., Portman Square, London, W.1, and two of its directors from infringing patents relating to tetracycline and oxytetracycline, was adjourned until October 29 by Mr. Justice Lloyd-Jacob in the Chancery Court, London, on October 18. The directors are Messrs. Montague Cecil Solomon and Leon Kuperberg. The application was adjourned, with Messrs. Pfizer's consent, after counsel for Messrs. D.D.S.A. had said he wished to file replies to new evidence put forward by Pfizer Corporation. Counsel added that D.D.S.A. had so far only applied for a compulsory licence in respect of one of the patents; now they intended to apply for a licence in respect of oxytetracycline. "We do wish to sell it to various people, particularly the Ministry, and therefore we think it right to apply for a compulsory licence," Mr. Graham said.

### Disciplinary Order Upheld

AN appeal by a veterinary surgeon against an order of the disciplinary committee of the Royal College of Veterinary Surgeons, removing his name from the supplementary veterinary register was dismissed in the High Court, London, on October 17. The committee had found him guilty of nine charges, including prescribing drugs without having first seen the animals concerned, prescribing drugs to persons who were not his clients, and prescribing drugs enabling chemists to sell or supply such drugs, the sale and control of which was regulated by the Therapeutic Substances Act, 1956. Delivering the Court's judgment, the Lord Chief Justice said that the cases in which the Court would interfere with a sentence by a disciplinary committee were rare and in this case there were no possible grounds for appeal.

### A Question of Supervision

BOLTON borough magistrates dismissed two charges brought by the Pharmaceutical Society on October 10 against a member of the Society accused of selling articles containing poison without the supervision of a pharmacist. Mr. Winston Crumblehulme, M.P.S.,

230 Halliwell Road, Bolton, pleaded not guilty to the two counts, but guilty to selling Codis tablets without the name and address of the seller on the container. He was fined £10. For the defence it was said that the tablets were a mild drug. An assistant forgot to put the name label on because it was during the busiest time of the year, just before Bolton holidays. A Pharmaceutical Society inspector said he made a "test" purchase at the pharmacy at 11.30 a.m. on June 28. There was one assistant in the shop. He presented a prescription for Metatone and the assistant took the prescription into the rear of the premises. The prescription was dispensed and brought back by a different assistant about five minutes later. The inspector then asked for a packet of twenty Codis tablets. The assistant went to the rear of the premises and returned with the tablets, put them in a bag and sold them to him. He then told the assistant who he was and asked for Mr. Crumblehulme. The bag containing the tablets did not have the name and address of the seller on it.

### Visit to Wholesaler

The assistant went to the rear and stayed about three minutes. Then two assistants and Mr. Crumblehulme's son came from the rear. The inspector was told that Mr. W. Crumblehulme had just left to go to a wholesaler. He arrived back in his car at about 11.50 a.m., and said he had supervised the dispensing of the medicine, saying the medicine had been Metatone on a prescription issued in Durham. Regarding the other sale, the inspector said Mr. Crumblehulme did not know the "nature of the poison." Mr. Winston Crumblehulme said he was in the dispensary of his shop in Halliwell Road, when his assistant brought in the prescription for Metatone. He dispensed it and his assistant stuck on the label. A Mr. George Corley was also in the dispensary. Just before he (Mr. Crumblehulme) left the shop Miss McGuinness, the assistant, took two packets of Codis tablets off a shelf and he nodded to signify he had identified them and sanctioned the sale of them. Nothing was to be sold from that shelf unless there was a qualified chemist on the premises. He then left the dispensary. When he returned he saw the inspector in the shop and thought he was a "rep." Mr. George Corley said he was in the dispensary when Mr. Winston Crumblehulme dispensed the prescription. The assistant (Maureen McGuinness) said Mr. Winston Crumblehulme had dispensed the prescription. She corroborated his evidence regarding the tablets. Mr. Barry Crumblehulme said he saw Miss McGuinness give the prescription to his father. As his father and Mr. Corley were getting ready to leave, Miss McGuinness waved the tablets in her hand and his father nodded his assent. His father could not have confused them with other tablets. The magistrates agreed that Mr. Crumblehulme had exercised supervision during the sale of the medicine and the tablets.

### COMPANY NEWS

Previous year's figures in parentheses.

DUFAY, LTD.—The company have bought for £155,000, in cash, the whole of the issued capitals of Actina, Ltd., importers and distributors of photographic equipment, and two associated companies, Planoptics and Photographic Sales. About £100,000 of the assets, a substantial part of which is property due to be sold, will, following the integration into Dufay, no longer be required. They can be considered in due course as available liquid assets.

WILLOWS FRANCIS, LTD.—A final dividend of 17½ per cent. and a bonus of 2½ per cent. is recommended for the year ended June 30. The dividend and bonus makes a total of 25 per cent. for the year on capital as increased by the scrip issue of one-for-five made in 1962 (against 22½ per cent.). Group profit before taxation is £86,984 (£80,608); less taxation, £45,063 (£39,964) and net profit, £41,356 (£40,237). The group profit for the year includes a non-recurring sum of £10,750 received in respect of the sale of patent rights.

KORK-N-SEAL, LTD.—Mr. A. Dumville (a director, United Glass, Ltd., and managing director, Kork-N-Seal, Ltd., since 1957) now becomes chairman and managing director. As chairman he succeeds Mr. W. Reid (a former chairman, United Glass, Ltd.), who retired through ill health in January. Mr. J. R. Gale (a director, United Glass, Ltd., and a joint managing director, Key Glassworks, Ltd.), Mr. R. W. Birch (commercial manager, Kork-N-Seal, Ltd., since 1959) and Mr. B. Moorhouse (secretary, United Glass, Ltd., and of Kork-N-Seal, Ltd.) are appointed directors.

### BUSINESS CHANGES

THE business of C. B. Baker (Chemist), Ltd., 133 Abbey Street, Nuneaton, has closed down.

MR. J. ATKINSON, M.P.S., has opened a branch at 3a Main Street, Greasbrough, nr. Rotherham, Yorks.

SCARBOROUGH CO-OPERATIVE SOCIETY, LTD., have closed their pharmacy department at High Street, Eastfield.

KETTERING CO-OPERATIVE CHEMISTS, LTD., have opened a pharmacy at 171 Farmstead Road, Corby, Northants.

LEDERLE LABORATORIES, division of Cyanamid of Great Britain, Ltd., have appointed Mr. S. J. Hansen a medical representative in the south-east London area.

DUNN BROTHERS, MANCHESTER, LTD., have transferred their offices to Bowlee Mill, 382 Heywood Old Road, Bowlee, Middleton, Manchester (telephone: Middleton 6111).

### Appointments

PHILLIPS, SCOTT & TURNER CO., Surbiton, Surrey, have appointed Mr. R. Graham sales manager of the pharmaceutical sales force.

GENATOSAN, LTD., Loughborough, Leics, have appointed Mr. B. Blackwell their representative for

the area covering Bournemouth, Southampton and the Isle of Wight.

THE CROOKES LABORATORIES, LTD., Park Royal, London, N.W.10, have formed a new development division under the control of Mr. M. E. Ash (managing director). Messrs. E. H. Hopkins, B. A. Matthews, R. S. Forrest and Mrs. Mary Davey have been appointed to the division.

BRONCO., LTD. (one of the Peter Dixon group of companies), have formed a Scottish organisation to cater with the selling and distribution of their products. Operating from the offices of William Melling & Co., Ltd., 93 Hope Street, Glasgow, Messrs. Bronco have appointed Mr. J. I. McQuilkin their district manager, with Mr. A. Boyd as Edinburgh area representative, and Mr. C. D. Dunlop as representative in the Glasgow area.

## PERSONALITIES

MR. M. REVESZ (president, Laboratories Hormofarma-Riker, S.A., Naucalpan de Juarez, nr. Mexico City, Mexico) recently visited Riker Laboratories, Loughborough, Leics.

MR. J. B. BUWEMBO joined Grayson & Co., Ltd. (part of United Africa Co., Ltd.), as a pharmacist at Kampala on October 16. Mr. Buwembo, who comes from Uganda, studied at London University School of Pharmacy 1959-1962 and obtained his degree as Bachelor of Pharmacy. He then completed one year's practical work in the dispensary of the Hospital for Sick Children in London, which entitled him to qualify as a Member of the Pharmaceutical Society. Before returning to East Africa, Mr. Buwembo spent a month in the offices of United Africa Chemists, Ltd., London, to extend his commercial knowledge.

MR. ELMER T. BROWNE (chairman and managing director of Merck Sharp & Dohme, Ltd., Hoddesdon, Herts) has been elected vice-president European area, international division, Merck and Co., Rahway, New Jersey, U.S.A. Mr. Browne takes charge of the company's operations in the countries of Western Europe except Greece and Portugal. He has served in the international division since the merger between Merck & Co. and Sharp & Dohme in 1953; he came to England in 1959 and the following year was elected chairman and managing director, Merck Sharp & Dohme, Ltd.



MR. F. J. BRIGGS, jun., managing director of Tickopres, Ltd., and Fisher Clark & Co., Ltd., has been unanimously elected president of the European Packaging Federation, succeeding Mr. Ake Sahlin, Sweden. Mr. Briggs is the second United Kingdom member to hold the office since the European Packaging Federation was founded ten years ago. He is immediate past-national chairman of the British Institute of Packaging.

MISS ANGELA BRANDRICK, who is a British research scholar in France with the Franco-British Pharmaceutical Commission, is spending a second year at the University of Bordeaux with Professor Paul Blanquet and his team working on the organic compounds of iodine formed in the body, is co-author of a recent report (*Comptes rendus* 27.3.63) on their findings following the administration of  $^{131}\text{I}$  to the rat and man. Miss Brandrick hopes that her work may progress far enough for her to submit an application for her doctorate next summer.

MR. ANTHONY BARBER, who succeeds Mr. Enoch Powell as Minister of Health in Lord Home's Government, was elected to Parliament in 1951 and in 1958 became Parliamentary private secretary to the Prime Minister. He was made Economic Secretary to the Treasury in 1959, and took over Financial Secretaryship in 1962. He may therefore be aptly described as a "Treasury man."

MR. EDWARD HEATH, who has been appointed by the Prime Minister to be the Secretary of State for Industry, Trade and Regional Development and President of the Board of Trade, was formerly Lord Privy Seal. He was first elected to Parliament in 1950, and was appointed Minister of Labour in 1950, after a period as Parliamentary Secretary to the Treasury and Government Chief Whip.



## OVERSEAS VISITS

MR. P. D. O'BRIEN (chairman and managing director, Laporte Industries, Ltd.), left London on October 22 for Australia. He will be away for about six weeks and plans to return home by way of the United States. Mr. O'Brien will be attending the official opening on November 1 of the titanium oxide plant of Laporte Titanium (Australia), Ltd., at Bunbury, Western Australia.



## MARRIAGES

BASTOW — BRUCE-JONES. — At Farnham, Surrey, Congregational Church recently, Timothy John Bastow, M.P.S., Summersdale House, The Drive, Chichester, Sussex, to Vanessa Bruce-Jones, Farnham.

## DEATHS

BLEWETT. — Recently, Mr. William Thomas Blewett, Venton Elwyn, Hayle, Cornwall. Mr. Blewett, who was ninety-eight, qualified as a chemist and druggist in 1887 and went to Hayle from Penzance in 1890 to open a chemist's shop, making the journey to and fro on horseback. Settling in Hayle, he developed other business interests which he maintained until he retired in 1951, when his son (Mr. Cyril Blewett, M.P.S.) succeeded him.

BROWN. — On October 11, Mr. Martin Brown, M.P.S., 31 Sydney Street, Chelsea, London, S.W.3. Mr. Brown qualified in 1945.

COATES. — On October 12, Mrs. Dorothy Coates, chairman of Coates & Cooper, Ltd., West Drayton, Middlesex. Mrs. Coates was the wife of the late Mr. Richard Coates, founder of the company.

EVANS. — On October 15, Mr. John Stanfield Evans, M.P.S., 35A Taff Street, Pontypridd, Glam. Mr. Evans qualified in 1933.

HOLBROOK. — Recently, Mr. Percy Thomas Holbrook, M.P.S., Moorfields Road, Nailsea, Bristol. Mr. Holbrook qualified in 1921 and was employed by Hodders, Ltd., in Bristol and Weston-super-Mare for nearly forty years. In 1949 he was appointed general branch superintendent for the area, retiring in 1960.

HUME. — On October 10, Mr. George Gordon Hume, M.P.S., 61 Salisbury Street, Amesbury, Wilts. Mr. Hume qualified in 1933. He then took over his father's business in Clapham and in 1957 opened a pharmacy in Amesbury.

JOHNSON. — Suddenly on September 13, Mr. Frank Johnson, until his retirement in 1957 a representative for Reckitt & Sons, Ltd., Hull.

MCNAIR. — On October 11, Mr. John McNair, M.P.S., 43 Aikman Place, East Kilbride, Glasgow. Mr. McNair qualified in 1911.

MELLISH. — On October 13, Mr. William Henry Melluish, M.P.S., 178 Jamaica Road, Bermondsey, London, S.E.16. Mr. Melluish qualified in 1934.

O'DONNELL. — On October 9, Mr. Harry Scott O'Donnell, M.P.S., 148 Brook Street, Broughty Ferry, Dundee, Angus. Mr. O'Donnell qualified in 1910.

PYE. — Recently, Mr. Laurence Pye, M.P.S., 22 Hospital Flat, Burghill, Hereford. Mr. Pye qualified in 1940.

RIGDEN. — Recently, Mr. Cyril Hubert Rigden, 37 Sydenham Road, Cotham, Bristol, 6. Mr. Rigden qualified as a chemist and druggist in 1923 and retired in 1935.

WARLOW. — Recently, Mr. Frederick Ride Warlow, M.P.S., Kings Leigh, Howcroft Gardens, Stoke Bishop, Bristol, 9. Mr. Warlow qualified in 1921.

## TRADE NOTES

**Marketing Arrangements Changed.**—Sales and distribution of Tek toothbrushes are now under the Tek-Hughes division of Johnson's Ethical Plastics, Ltd., 32 Ajax Avenue, Slough, Bucks.

**Now Taxable.**—Philip Harris Medical, Ltd., 144 Edmund Street, Birmingham, 3, announce that their Phortinea liquid and cream specialities are both now subject to purchase tax.

**Overalls on Hire.**—Nylon Rentals, Ltd., Dallas Road, Lancaster, Lancs, suggest that it is cheaper to hire than to buy overalls. They offer to send applicants details.

**Distribution Change.**—Manufacture and distribution of Cornol and Quinphos tablets and liquid have been discontinued by Thompson & Capper, Ltd., and taken over by Northern Pharmaceuticals, Ltd., Galen House, Bradford, Yorks.

**Baby Soothers.**—Lewis Woolf Grip-tight, Ltd., 144 Oakfield Road, Selly Oak, Birmingham, 29, makers of Grip-tight baby soothers with latex teats, explain that the use of a baby soother is considered preferable to thumb-sucking "provided, of course, that the soother is clean, undamaged and not 'beyond the washing stage'."

**Appeal to "Anonymous" Dealers.**—Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.C.2, report a full response to their Photoflux newsletter RWU/62, but among the replies were a large number of cards asking for literature and details of sales aids but without names and addresses. Messrs. Philips ask any such "anonymous" dealers to send on the necessary information.

**Imperial Measure Discontinued.**—Novutox brand injection solutions and Xylotox brand dental injection solutions in imperial measure have been discontinued by the manufacturers, Pharmaceutical Manufacturing Co., Ashley Works, Ashley Road, Epsom, Surrey. Metric packs have been substituted. The 2-oz. pack thus becomes 50 mils, the 10-oz. pack 250 mils, and the 20-oz. pack 500 mils.

**Changes of Pack.**—Tobal Laboratories, Ltd., Queenborough, Kent, advise that, when existing stocks of Antussin cough treatment, 2-oz. and 4-oz. sizes, are exhausted the product is being discontinued. Consumer demand for the old Antussin is expected to continue for a further month or two. When it ceases the company will send a replacement 4s. 6d. or 7s. 6d. bottle of adults' Antussin for every 4s. 1d. or 7s. 4d. bottle returned to them.

**A Hot-water Bottle Range.**—Hot-water bottles offered by the Dunlop Rubber Co., Ltd., P.O. Box 151, Cambridge Street, Manchester, 1, include the Dunlop Flag, a strong moulded bottle in pastel blue or red, and five other moulded bottles. The company's Cosimax and Deep Sleep are claimed the only bottles that take boiling water; they have velvety covers and flap-over tops, and each is issued in a gay box. The Georgian and Quiltie bottles are each covered in a coat of brushed fabric, the Quiltie (a streamlined bottle) in red or blue, and the Georgian in an oak-leaf pattern (blue, red and lavender). The children's range comprises five bottles all covered in brushed fabric with embroidered design of doggy, bunny or duck in the

Motif series and with Red Indian village design on blue, pink or yellow or Eskimo bear design on red background in the Wigwam series.

### Bonus Offers

ANDRE PHILIPPE, LTD., 71 Gowan Avenue, London, S.W.6. No. 15 aerosol perfumed lacquer spray, 10 per cent. on minimum order for 6 doz. Until November 30.

LABORATORIES FOR APPLIED BIOLOGY, LTD., 91 Amhurst Park, London, N.16. Pernomol chilblain paint. Thirteen charged as twelve. Until November 30.

NUTONA, LTD., Shipley, Yorks. Rapimil instant milk granules. 6 doz. invoiced at 5½ doz. Until December 31.

## MANUFACTURERS' ACTIVITIES

**Competition Prize-winners.**—First prize (£500) in a Bu-to competition organised by Biometica, Ltd., Boreham Wood, Herts, went to Mrs. S. G. Bray, 31 Cleveland Road, Marsh, Huddersfield; second prize (£200) to Miss Irene Wilkinson, 32 Broom Crescent, Ushaw Moor, co. Durham; and third prize (£100) to Mrs. W. Cutcliffe, 62 Thirlmere Road, Maybush, Southampton. Eighteen transistor radio sets were presented to runners-up.

**Prizes for Teenage Shavers.**—Over 7,000 teenage cinema-goers entered for a "Treasure Chest" competition launched in late autumn by Remington Electric Shaver, Ltd., 26 Kensington High Street, London, W.8, in which cash prizes totalling £200 (plus forty Rollershaves valued at £238 for runners-up) were offered. Contestants were required to place in order of merit nine "plus-points of the Roller-shave." The three top prize-winners were:—1, (£125): Mr. Charles Harding, Wellwood, Gadbrook Lane, Betchworth, Surrey; 2, (£50): Mr. Evan Forbes, Topcommon, Chipperfield, Herts; 3, (£25): Mr. E. Green, 84 Park Road, Regent's Park, London, N.W.1.



**PICKING THE WINNERS:** Messrs. A. T. Coombs and R. Robson keep the drum rolling while Miss Fenella Fielding picks an entrant's card in a "Together" display competition organised by J. C. & J. Field, Ltd., Slough, Bucks. Two stockists were selected as winners in each of five areas and each stockist receives £10 if a well arranged display is in position when the judges call. The best display of the ten visited in the opinion of the judges wins the prize of a weekend for two in Paris, or £120.

## INFORMATION WANTED

The Editor would appreciate information about:  
Plastic disposable tongue spatulas

**HOT-WATER BOTTLES IN A MAKER'S RANGE:** Left to right, upper row, Suba-seal standard, Suba-comet, Suba-seal streamline and Suba-plastic; lower row, Pennant, Suba-luxe, Suba-seal father bear and Suba-seal streamline cot. Makers are William Freeman & Co., Ltd., Suba-Seal Works, Staincross, Barnsley, Yorks, who also offer three "fix-your-own-price" bottles, the Suba-star, Suba-ray and Bara, each in pack of twenty-five blue and twenty-five red or fifty assorted as required.

## NEW PRODUCTS AND PACKS

**Anti-bronchitic Aerosol.**—The Bayer Products Co. (a division of Winthrop Group, Ltd.), Winthrop House, Surbiton-upon-Thames, Surrey, have launched a new anti-asthmatic and anti-bronchitic aerosol, Bronchilator, in 10-mil vial with measured-dose oral nebuliser.

**New Presentations.**—FBA Pharmaceuticals, Ltd., Burrell Road, Haywards Heath, Sussex, announce that a new presentation for their products Detigon and Ospolot will be available from November 1. In response to requests



from chemists, Detigon linctus becomes available in a 20-oz. pack. A pack of fifty 50-mgm. Ospolot tablets is also being made available "in order to give greater flexibility, particularly in the paediatric field."

**Penicillin Preparations.**—West Pharmaceutical Co., Ltd., 9 Palmeira Mansions, Church Road, Hove, 3, Sussex, are issuing penicillin-VK preparations under the trade name Econopen V. The range includes 125- and 250-gm. tablets each in bottle of 100, and a suspension in 60-mil bottle.

**Against Ringworm in Cattle.**—V.A.S., Ltd., Oxted, Surrey, announce the introduction of an antifungal preparation Zicospor for the treatment of ringworm, farms and similar infections in cattle. Messrs. V.A.S. claim that Zicospor is simpler and more effective than orthodox treatments because it first softens and penetrates crusts or scabs. Pack is a bottle of 1 pint.

**Ampicillin Injection.**—Beecham Research Laboratories, Ltd., Great West Road, Brentford, Middlesex, announce that their speciality Penbritin, "the only broad-spectrum penicillin available in the United Kingdom," is now available as an injection. The makers suggest that the product should prove valuable for patients who, for any reason, are not amenable to oral therapy, and in severe infections in which parenteral therapy is indicated. The injection is supplied in the form of vials each containing 500 mgm. of ampicillin as sodium salt. The packs are cartons of five in an outer of twenty-five. Supplies are at present restricted to hospitals.

**Two New Specialities.**—Harvey Pharmaceuticals, a department of Pfizer, Ltd., Sandwich, Kent, announce that a new speciality Rondomycin (Pfizer brand of methacycline hydrochloride) and Methral-N topical ointment (Pfizer brand of fluperolone acetate with neomycin sulphate) are being made available on October 28. Rondomycin is

described as a new powerful broad-spectrum antibiotic that "must rank as foremost broad-spectrum antibiotic today" on account of its greater intensity of action over the bacterial spectrum, simplicity of dosage regimen, low toxicity and remarkable stability. It is issued in bottles of sixteen and 100 150-mgm. capsules. Recommended dose for infections of average severity is 600 mgm. daily in divided doses (double doses in severe infections). Methral-N is a combination of a quick-acting topical corticoid with neomycin in a greasy ointment base. It is used in conditions normally treated with topical steroids but in which the presence or risk of infection may complicate the therapy. Methral-N topical ointment is issued in tube of 10 gm.

**Reformulated.**—W. T. Owbridge, Ltd., Osborne Street, Hull, have in-



roduced a new cough medication under the name New Formula Owbridge's.

**Milk Granules.**—An "instant milk," Rapimil, in granule form, is being introduced by Nutona, Ltd., Shipley, Yorks (a subsidiary of Carter Bros., manufacturing chemists, Shipley). The granules, described as "feather-light,"



are produced in France by a new process from fresh, separated milk, from which nothing has been taken except the water content. The process is stated to protect the nutritional qualities of ordinary milk, to keep the milk's rich and fresh flavour, and to be entirely free from harmful bacteria. Virtually fat free, Rapimil contains approximately 36 per cent. of protein. It is "simple to handle, convenient for making tea or coffee, useful in emergencies, ideal for those living alone or in flatlets or during the summer while hiking, camping or caravanning." The packs are a 7-oz. container to make 3½ pints of milk and a family pack to make 28 pints (3½ lb. of granules).

**Barrier Cream.**—Southon Laboratories, Ltd., Howbury House, Thames Road, Crayford, Dartford, Kent, have added to their range of Esoban preparations a barrier cream in 4-oz. tube.

**For Coloured Customers.**—Swadon Cosmetics, Ltd., 191 Latimer Road, London, W.10, have introduced new shades (sun, moon and star) of Skin Glo liquid make-up and Lip Glo lipstick (sun-kissed, dark red and cyclamen) in propelling case, and compact powder (sun-glo and brunette) to meet the increasing demand from West Indian and African customers.

**Dusting Powders in Plastic Packs.**—Yardley's dusting powders are now available from the manufacturers, Yardley & Co., Ltd., 33 Old Bond Street, London, W.1, in oval plastic drums with gold edging and gold blocked lettering. The fragrances available are Bond Street (soft red) and lavender (blue), each with its own lambswool puff in colours matching the drum.

**New Range of Toilet Tissues.**—S. Maw Son & Sons, Ltd., Barnet, Herts, announce the introduction of Nu-Soft tissues, latest in a range of products



sponsored by the National Pharmaceutical Union. Available only from the company, the tissues are marketed exclusively to "private" chemists. They are packed in line with Nu-Soft toilet rolls. Two sizes are available, one containing 65 pulls and packed forty-eight to a case, and the other containing 175 pulls and packed twenty-four to a case. Each pull is a full-sized high wet-strength two-ply tissue measuring 9½ x 8½ in.

# Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

## "Basic" Price

SIR,—I have just dispensed a private prescription for 25 Ismelin tablets, 10 mgm., and charged 12s. 9d., only to be told by the customer that the doctor had looked it up in his book and that the price was 11s. So what?

G. H. P. THOMAS,  
Parkstone, Dorset

## How To Run Things?

SIR,—How would it be for the secretary of the Pharmaceutical Society to have a chat with the secretary of the Dental Association to find out how they run things. We are so behind the times now, though, that a bare £2 a week rise would not restore our 1948 financial status. Nearer £10 I think would be needed. Perhaps the B.M.A. could also give us some advice.

S. F. BROWN,  
Tonbridge, Kent

## Votes for All

SIR,—Like thousands of other members I am unable to attend the special general meeting of the Pharmaceutical Society on Wednesday next to express my disfavour of the proposed increase in the retention fee and vote accordingly. Under the circumstances a postal vote should be permitted, so allowing all members an equal chance. I shall be posting my proxy and trust others will do likewise. Members attending the meeting could collect signatures and be allowed to use them as votes.

D. WILLIAMSON,  
Kineton, Warwickshire

## No Laments

SIR,—There cannot be many pharmacists who will lament the absence of the ex Minister of Health in the new government. One brick wall has been removed and it is to be hoped that our negotiators will fare more favourably with the new Minister of Health and press with the utmost vigour for the abolition of the iniquitous differential on-cost. Also, it is to be hoped that more realistic dispensing fees will be obtained. There is no incentive with the present position, which leaves one with feelings of frustration and enmity.

JOHN W. M. KENT,  
Chelmsford, Essex

## A Letter to the President

SIR,—We would appreciate your printing the attached copy of a letter sent to the president of the Pharmaceutical Society on October 7.

WE of the Progressive Pharmacy Association request that you inform us of the purpose(s) for which the increase in the retention fee is deemed necessary. . . . Furthermore, as you probably know, the primary aim of this association is to restrict distribution of medicinal products to the pharmacy. We have been given to understand that the Society is in favour of this. Will you, therefore, please explain why no effort is being made to achieve it, and what obstacles bar the way to its fruition. We are of the opinion that some form of discipline should be exercised by the Society among its

members, apart from that arising from matters of professional conduct. We believe that limitation of pharmacies will come, and it would be beneficial in future National Health negotiations if limitation was applied now to new establishments. . . . This Association requests (and its daily increasing numbers warrant such request) that a policy be drawn up to the effect that all medicinal substances be limited, by way of distribution to the public, to pharmaceutical outlets only.

S. G. ASTBURY,  
Stoke-on-Trent, Staffs

## Vicktory Call

SIR,—I see as lots of bloques are writting letters such as Anti Vick but I dont se as why? I have a dirty great winchester which is labeled Linct. Enochii Powellus\* the contents of which is maid from stuf given me by this geezer called "vick" and i reckon as ow i shall make a proffit of four nicker on it and is tax free and pays for the tely and pleases mum and then their is the emptys and is wot i kwallified for. So i say "good old vick" and long may he rain and i am

"VERY SATISFIED."

[Received before recent Government changes took place.—EDITOR.]

## Fluoracetamide

SIR,—We have noted the statement by Messrs. Rentokil (C. & D., October 12, p. 384) re fluoracetamide, and comment as follows:

1. It has been established that, although acetamide antagonises the toxic effect of fluoracetamide, the former hydrolyses so much more rapidly than the latter that after three months the detoxifying effect no longer exists; and

2. Following the ingestion of a child aged eighteen months in August 1959 of 5-10 mils of the 1 per cent. systemic insecticide referred to, death followed in coma at Kettering Hospital within five days.

M. A. PHILLIPS,  
DR. M. A. PHILLIPS & ASSOCIATES,  
Romford, Essex

## Nothing at All from the Fee?

SIR,—We now have a statement of fact from Mr. C. Maplethorpe (president of the Pharmaceutical Society) that a sum of 7s. per member was used to subsidise education. Where does the remaining £4 18s. a year go? It is now proposed to raise the retention fee to £9 a year. Is this for the benefit of the "residents" of 17 Bloomsbury Square? They seem to be an abstract body, just concerned with administering the Poison Regulations according to the law. When the National Health Service began in 1948, the doctors, through the British Medical Association, and the dentists, through the British Dental Association, arranged pensions at the age of sixty-five. The pharmacists, though equally qualified, were left out, and designated "contractors" with no pension. I assume that the executives of the Pharmaceutical Society (all eligible for pension) could not care less. Now they

advertise for an assistant secretary at £3,500 a year. What are the senior members getting? It must be astronomical, plus, in some cases, Parliamentary fees as well. What do we benefit from their services? From my own experience of forty years, I can say we get nothing, except a copy of the journal each week. W. SUMNER, Pontycymmer, Glam

## Problem and Outcome

SIR,—Again pharmacy is facing a crisis, with increasing costs and competition from all sources, while trade terms are going down. Members of Parliament and town councillors, are appealing for the establishment of pharmacies on new estates. And why? The simple fact is the business does not pay, as it should. The Society is inept, the National Pharmaceutical Union is weak. The solution—a forceful action by all pharmacists, hospital, manufacturing, retired and retail, to obtain: 1. Restriction of sales of medicines to pharmacies; 2. A new contract under the N.H.S. Result of failure—more shops closing, lower wages in the hospital services, bankruptcy in the retail. K. HERBERT, Progressive Pharmacy Association

## Inspired Writing?

SIR,—In reply to Mr. P. J. Dickinson's letter (C. & D., October 12, p. 394), we are of the opinion that the *Observer* is not the type of newspaper that indulges in "inspired writing" and that they must have had definite grounds for the statement they made in their article on B.D.H. and the baby food market. The operative words in Mr. Dickinson's letter are "The board of this company has not changed its policy of selling only through retail chemists." We invite Mr. Dickinson to state quite definitely that his company will not change its policy on their entry into the baby food market and thus give retail pharmacists the assurances they require.

CYRIL E. TURNER,  
Stoke-on-Trent

## An Export Problem

SIR,—It has been announced by the Ministry of Finance and Trade in Ghana that, as from October 1, shippers to Ghana who are not the actual manufacturers of the goods shipped must supply the manufacturer's invoice, together with their own. This of course is possible where the exporter is a buying agent and charges a commission only, but where the shipper acts as principal and makes a profit, there are a number of difficulties, apart from the fact that he would be giving away the goodwill of his business. An export merchant may purchase in bulk and repack them for export so that the manufacturer's invoice would bear no relation to the selling price. I presume our Board of Trade will be dealing with this matter.

HUGH LATTIMER,  
Epsom, Surrey



# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at  
28 Essex Street, Strand, London, W.C.2

TELEPHONE: CENTRAL 6565

TELEGRAMS: "CHEMUS ESTRAND, LONDON"

## Under New Management

LITTLE pharmaceutical sorrow has been apparent at the decision by Mr. Enoch Powell not to accept the Ministerial office in the new Government announced by Lord Home on October 21. His self-banishment from the Ministry of Health has, if anything, been greeted by a reaction of relief from many members of the profession. That reaction springs not from any known premeditated change of policy, but from the hope that the change of personnel may at least result in a more liberal attitude to the profession and its many problems.

Since the appointment of Mr. Enoch Powell as Minister of Health in August 1960, little seems to have gone smoothly in the pharmaceutical sphere. His decision to raise the prescription levy, and his lack of appreciation of professional problems involved, caused difficulties among contractors. His decision to invoke section 46 of the Patents Act caused apprehension from the manufacturing side of the industry. And hospital pharmacists have received little encouragement or recompense in their attempts to improve their salary levels. The imposition of the differential system of payment has never been accepted by the spokesmen of the chemist contractors under the National Health Service, and the even more recent disregard of the minority recommendation of the Cohen Committee on Safety of Drugs, even when supported by the eloquent appeal of the Pharmaceutical Society, continues to rankle. Few Ministers of Health have caused such bitter resentment amongst pharmacists. At one stage it looked as if he might cause pharmacists to unite in "strike" action against him.

It is unlikely that Mr. Powell will remain permanently out of Ministerial office. If he desires to continue his Parliamentary activities his capacity and integrity may even translate him to the front bench in years to come. Meanwhile he will probably be remembered outside the pharmaceutical sphere as the Minister of Health who inaugurated large-scale and long-term planning in the Hospital Service.

Under Mr. Powell's successor (see p. 441), it is hardly likely that there will be many policy changes during the next few months of office preceding the General Election. Pharmacists will hope, however, that Mr. Anthony Barber will bring to the present situation a little more humanity and avoid some of the cold dispassionate appraisals that were so much the insignia of his predecessor.

## Instruments of Change in Retailing

THE Weights and Measures Regulations 1963 (H.M. Stationery Office, price 2s. 6d.) made by the Board of Trade and effective from January 31, 1964, appear as one of a series of statutory instruments to be issued under the Weights and Measures Act, 1963, a statute that consolidated and amended the law on weights and measures and repealed, wholly or partly, about 200 statutory instruments. The new regulations are relatively technical. They apply to weights, measures and equipment in use for trade, and deal with materials, principles of construction, testing and stamping of such equipment. For the most part the new regulations repeat earlier legislation, and any changes are only such as are necessary to meet the detailed provisions of the new Act, or to cover dispensations, as hitherto granted by the Board of Trade, from the requirements. Among those dispensations are some relating to the use of certain apothecary and troy weights of 1 oz. or more, which may now by statute be of stainless steel, as well as of brass, gun metal or bronze, and must be "of the cylindrical type and provided with carrying handles or knobs." Grain weights and apothecary weights of less than 1 oz. may also be of the same materials or of platinum, aluminium or aluminium alloys. They must be of the flat or wire type. Thus, almost imperceptibly, the controls that stem from the new Act begin to emerge from the Board of Trade. What is at present only a ripple is likely to become a wave when other forthcoming legislation emerges, bringing into operation the provisions dealing with packaging and sale.

## Onward from Galen

### ★ ATTRACTING A PHARMACIST ★

A LOCAL community must want a pharmacy strongly indeed for its citizens to club together and advertise for a pharmacist tenant of premises that are ready and waiting, as the Goldstone Valley, Hove, Sussex, Residents' Association does in this issue. Any pharmacist who responds and moves in will start with the powerful advantages of the ready-made loyalty and gratitude of a majority of the population in the catchment area—86 per cent. at least. The advertisement comes as the outcome of an "inquiry into Goldstone Valley shopping facilities," which establishes that although there is a small shopping parade on the edge of the valley, the main facilities are concentrated in and around a particular parade of shops in which at present eight traders and a petrol filling station are located. One shop remains unoccupied, and the inquiry was aimed at deciding the most suitable use for that. Baker, fishmonger, radio and television, chemist and laundry were considered, but "the need for a chemist shop in the area was clearly expressed." One member stressed that to obtain medicine could mean a double journey to the town centre. Unfortunately loyalty and gratitude, valuable assets as they are, are not enough. While we hope that the situation will be studied on the spot by intending proprietors wishing to open a new business or add to an existing one, and while, as publishers, we would naturally wish the initiative of the Residents' Association to be rewarded (and copied), £ s. d. must remain the basis of the decision. The advertisement gives the rent but not the population figures, though it is understood that "planning permission exists for a large flats scheme" near the site and that "recently more land was released for building development by Hove Council." Proximity to the South Coast seaside is another advantage, but if the tenant will have the benefit of a pleasing prospect of the Downs, he must still be able to make his own Ups.

# A NEW EDITION OF THE B.N.F.

J. W. HADGRAFT, F.P.S., F.R.I.C.  
(Group Chief Pharmacist, Royal Free Hospital, London, W.C.1)

## British National Formulary, 1963

Pharmaceutical Press (jointly with the British Medical Association), 17 Bloomsbury Square, London, W.C.1. 6½ x 4 in. Pp. 300. Standard edition, 10s. (postage ninepence).

PUBLICATION of the British National Formulary, 1963, coincides with the production of new editions of the British Pharmacopœia and British Pharmaceutical Codex. For the first time all three publications have appeared together, and it is hoped that it will be possible in future to co-ordinate the revision of the three publications so as to avoid some of the difficulties that have occurred in the past when the appearance of new editions of each has been widely separated.

Following the policy of the B.P. and B.P.C., the B.N.F. makes wider use of the metric system. It includes an important section on "Prescribing in the Metric System." All single-dose forms of drug presentation (tablets, capsules, lozenges, suppositories and injections) are now formulated in the metric system. Liquid preparations, taken mainly from the B.P.C., continue to be formulated in Imperial weights and measures. However, many prescribers—particularly those from the younger generation—are already using the metric system, and the section on metric prescribing has been produced in the hope that it will help to bring about uniformity in practice. The recommended metric quantity for a teaspoonful is 5 mils, and for a tablespoonful 15 mils. Those are the amounts that will be adopted by the B.P.C. when liquid medicines are reformulated in the metric system. In keeping with that recommendation, new preparations (noscapine linctus, strong pholcodine linctus, paracetamol elixir for infants) have been formulated in the metric system with a dose volume of 5 mils. Unfortunately, other new preparations are available in only proprietary formulations, and different manufacturers have adopted different metric quantities for the teaspoonful dose. The result is that four different volumes are used in the new B.N.F. for the teaspoonful dose, viz. 3.5 mils, 4 mils, 60 minims and 5 mils. It has become necessary for the Joint Formulary Committee to give some guidance on labelling of dispensed medicines, and the recommendations given in table I are included in an addendum to the Formulary.

TABLE I. LABELLING RECOMMENDATIONS

| PRESCRIBED VOLUME                  | LABEL                 |
|------------------------------------|-----------------------|
| 5 mils, 4 mils, 3i or 60 minims    | One teaspoonful       |
| 3.5 mils                           | One small teaspoonful |
| 2.5 mils, 2 mils, 3ss or 30 minims | Half a teaspoonful    |
| 1 mil or 15 minims                 | A quarter teaspoonful |

Recommendations on the quantities of preparations to be prescribed in the metric system have been made in order to encourage doctors to prescribe numbers of doses of liquid medicines in tens or multiples of ten, so as to gain the advantages of the metric system in calculations. It should also provide the manufacturers of glass bottles with a list of appropriate volumes on which to base the production of medicine bottles in readiness for the complete adoption of the metric system in 1968.

## Pædiatric Section

Another feature of the new edition is the much enlarged paediatric section, replacing the infants section of former editions. Many new preparations have been added to increase the scope offered by the B.N.F. to the paediatric prescriber. Prominent amongst them are liquid formulations of

antibiotic preparations (tetracycline, chloramphenicol palmitate, erythromycin, neomycin, nystatin, phenoxyethylpenicillin and novobiocin). More detailed information is given on doses for children up to twelve years of age. The paediatric dosage has been calculated on a bodyweight basis but, for the convenience of prescribers, suitable doses have been stated for three age ranges: up to one year, one to five years and six to twelve years. A table giving the average bodyweight of children between the ages of one to twelve years is also included. Pharmacists in both hospital and retail practice should welcome the more detailed information in this section. They should also appreciate the warning given on the measurement of the dose of liquid medicines for children. It is widely appreciated by pharmacists that enormous errors may be introduced in measuring the dose volume of liquid medicines, particularly if the vehicle is viscous. Attention is drawn to these dangers and the prescriber is advised, when potent drugs are prescribed, to use tablets and to give suitable instructions for administration by crushing and mixing with jam or some other suitable vehicle. A new preparation for infants is soluble atropine sulphate tablets, B.P.C., which disintegrate rapidly, enabling them to be easily administered after adding to liquid. That could foreshadow a more extensive range of tablets specially formulated to enable potent medicaments to be administered to young children in accurate dosages.

## New Preparations

The character of the B.N.F. has evolved in recent editions, so that it now forms a comprehensive handbook of prescribing, not only for the general practitioner but also for use in hospitals. The latest edition further enlarges the scope of the book, giving the prescriber a wider selection from which to choose the preparation most suited to the needs of his patient. There are 117 additions to the Formulary and seventy-two deletions of older preparations. The majority of the new preparations have been taken from the B.P. and B.P.C. The additions reflect the activities of the pharmaceutical industry in recent years. Prominent amongst them are twenty-two new preparations of antibiotics, seven for topical use, including preparations of neomycin and framycetin for use in the eye. Notable amongst the systemic antibiotic preparations are three of the new semi-synthetic penicillins. Methicillin (Celbenin) and cloxacillin (Orbenin) have been included for their value in the treatment of resistant staphylococcal infections, whilst ampicillin (Penbritin) has a broader range of activity and is likely to be more widely used as a broad-spectrum antibiotic. Phenoxyethylpenicillin (penicillin V) remains the penicillin of choice for oral administration in treating penicillin-sensitive infections. Griseofulvin tablets have been added to the Formulary for use in treating fungal infections, and nystatin has been included in both tablet and pessary formulations for the treatment of candida infections.

## Corticosteroids

Eight new inclusions belong to the corticosteroid group, four of them for topical use. Triamcinolone (Ledercort) is the only fluorinated derivative for topical application to find a place in the B.N.F.; it is included as both cream and lotion. The B.P.C. formulation for hydrocortisone lotion enables pharmacists to dispense that preparation extemporaneously, but permission to use any other suitable basis allows any proprietary product to be supplied as an alternative. Two of the more potent systemic corticosteroids (betamethasone and dexamethasone tablets) have been included.

(To be concluded)

# Pharmaceutical Society of Ireland

## MONTHLY MEETING OF COUNCIL

**M**R. John P. O'Donnell, Charlestown, co. Mayo, was unanimously elected the new *Vice-president* at the Council of the Pharmaceutical Society of Ireland's monthly meeting on October 8. He succeeds the late Mr. J. J. O'Regan. The outgoing *President*, Mr. D. J. Kennelly, and *Treasurer*, Mr. M. L. Cashman, were unanimously re-elected.

### New Members Welcomed

THE PRESIDENT congratulated new members, Messrs. T. Harty, Tralee, and M. Mulreany, Sligo, on their election and welcoming Mr. Harty, regretted that because of the short notice of his election, Mr. Mulreany had been unable to attend. The president assured Mr. Harty of the Council's full co-operation in his efforts to further pharmacy. Unfortunately, they were going to miss Mr. Broderick, a young pharmacist to whom they were grateful for the services he had rendered to pharmacy. MR. HARTY, replying, thanked the Council for having co-opted him unanimously. In doing so they had placed considerable confidence in him as had the majority of the chemists in the country by electing him. He assured them that he would do his best to justify that trust.

MR. F. LOUGHMAN, proposing the re-election of Mr. Kennelly, said he had had the same privilege the previous year. "On the last occasion we were all aware of his capabilities and outstanding interest in pharmacy and also his fine social qualities: as a result of our experience of him in the Chair during the past twelve months I doubt if he has ever been excelled." Mr. Loughman said they were all aware of his valuable work on *Comhairle na Niomhána* and much of the credit for the £11,000 grant received from the Department of Finance had been due to Mr. Kennelly. "So far as I know, it is the first time the State has come to the aid of pharmacy and for that reason alone we are indebted to the leadership of our president." Enumerating Mr. Kennelly's successes and work at the F.I.P. conference in Dublin, the recent British Pharmaceutical conference and in the Council, Mr. Loughman said "He has attained a status in the last twelve months that will have lasting benefits for Irish pharmacy."

MR. P. A. BRADY, seconding, said Mr. Kennelly had always taken an active interest in pharmaceutical matters and as president had fully lived up to the high standard set by his immediate predecessors. He did not think any other president had given so much of his time, thought and energy to the work of the Council.

MR. KENNELLY, replying, said he was fully aware of his limitations and could not have achieved what he had done in the past twelve months were it not for the co-operation he had received from every member of the Council and the registrar. Proposing Mr. O'Donnell as vice-president, Mr. Kennelly said that during his years on the Council he had shown all the attributes that go to make a good Council member, having a tremendous grasp of all the ills besetting pharmacy and decided views on how to remedy them. The co-operation between them for the betterment of pharmacy would continue.

Seconding, MR. R. J. POWER said he knew Mr. O'Donnell to be a professional pharmacist and a young man of exceptional ability.

MR. O'DONNELL declared he was overwhelmed to find himself vice-president after so few years and appreciated the confidence bestowed on him. He was fully aware that there were other members more adequately equipped to fill the office but having been a student with the president, he was glad to be able to stand by him and help him as much as he could.

MR. COSTELLO, proposing the re-election of Mr. Cashman as treasurer, referred to the competent manner in which he

had dealt with the balance sheet at the annual meeting the previous night, and said he had made a considerable impression on all present by his able presentation of the report. He also paid tribute to the president, and Messrs. Brady, Corrigan, Cashman, Coleman and Professor Timoney on their successful negotiations in connection with the grant. Judging by the friendly manner in which they had been received it was evident they had presented a logical, sensible case, and one that left no loopholes. "I do not think we could have sent a better team." MR. M. POWER seconded.

On the motion of MR. G. C. O'NEILL, seconded by MR. H. P. CORRIGAN, Messrs. J. J. Griffin and Co. were re-elected auditors.

It was agreed that the House, Schools and Law Committees should consist of all the members of the Council. Messrs. Loughman, O'Sullivan, McElwee, Walsh, Miller and Corrigan were unanimously elected to the Benevolent Fund Committee. Messrs. Cremen, O'Sullivan, Semple and Walsh were re-elected to the Certificates' and Declarations' Committee.

Paying tribute to the Council representatives at the British Pharmaceutical conference, MR. COSTELLO said it was a pleasing gesture that this year the Conference Executive had seen fit to amend the rules of their Constitution to enable representatives of the Pharmaceutical Society of Ireland to become full members of the Conference.

He paid tribute to Mr. Corrigan, who had taken the matter up with the Conference Executive.

THE REGISTRAR reported that twelve students had passed the Supplemental Second Science Pharmacy examination. Four of the ten students presented had passed the Pharmaceutical Assistants' examination.

### Booklet on Poisons Regulations

Referring to the proposed new Poisons regulations, THE PRESIDENT said it was the intention of the Society to publish a booklet containing the names of all proprietary preparations currently controlled. He presumed the Poisons regulations would also be clearly set out. MR. CASHMAN advocated, as suggested in letters received from members, that it should be made obligatory on manufacturers to attach to their products labels indicating the controls required. That, he said, would make the task of pharmacists considerably easier.

In reply to Mr. Semple, THE PRESIDENT said it would seem that the regulations would apply to hospitals and dispensaries as well as to pharmacists. It would be sufficient to put the name and address of the hospital or dispensary issuing the preparations on the labels. The name of the pharmacist actually compounding the preparations was not necessary. MR. SEMPLE said he had raised the matter because certain pharmacists had felt the inspector was only calling on retail pharmacists.

PRESIDENT: We are still working on the legislation and it would be impossible for me to say in advance what is going to happen. All decisions made by *Comhairle na Niomhána* will be submitted to the Minister for Health for approval and it is the Minister who will finally make or reject the regulations.

MR. R. J. POWER said there appeared to be obvious breaches of the Barbiturate Acts being committed and if that were allowed to continue it would not only destroy the public image of pharmacy but also destroy the confidence of doctors in the profession. MR. HARTY believed the majority of pharmacists in his area were not fully conversant with the regulations governing the sale of those preparations. Difficulties arose over the question of "repeats," and one pharmacist might be a "drug trafficker" while his colleague might be an "ethical type." If the

ethical man adhered strictly to the regulations, as should be done, the public might not support him but would go to the other pharmacist for all their requirements. There had not been enough pressure brought to bear in convincing the general pharmacists that the laws were there for all. THE PRESIDENT replied that the regulations were simple and he failed to see how any pharmacist should not be able to comprehend them. In the absence of an instruction, the prescription should not be repeated. On the other hand, when the doctor did mark the prescription to be repeated, the pharmacist should stamp and date it before handing it back to the patient. The president thought it best in such cases that the pharmacist arrange with the patient to keep the prescription because the patient was always liable to lose or forget it. He stressed that the prescription should be stamped each time it was handed back to the patient and when the number of repeats were finally exhausted the pharmacist must retain the prescription. That applied in the case of all controlled preparations. "It is up to pharmacists to report all unethical practices to the Society and it is the duty of the Society to take action where such arise. I feel before the end of the year there will be so many more controlled preparations on the market that it will be absolutely essential for every pharmacist to know the regulations." He added that he was quite prepared to address local associations on the regulations. In reply to Mr. Loughman, he said it would be in order for a pharmacist to write across the prescription "For doctor's use only" in cases where application was made for a copy of a prescription for a controlled preparation.

MR. COSTELLO said only the previous Saturday he had received a prescription for a controlled preparation which could not be repeated and on it were the names of three other pharmacists in various parts of the city. It was confusing looking up the schedule to see if a preparation were controlled. In the instance quoted the other chemists had evidently been careless.

MR. WALSH: If that happened in Britain the offending pharmacist would be struck off the Register.

THE PRESIDENT added that by law they must put the date of dispensing on the prescription to ensure that the preparation was not being repeated too often and MR. CORRIGAN said the names of hospitals were obligatory on all preparations issued by them.

### Proposed Rota of Locums

THE PRESIDENT reported that the Veterinary Committee had met that morning and would be meeting again to deal with veterinary matters affecting pharmacy. After MR. SEMPLE had dealt with the difficulty experienced by pharmacists in getting locums for holiday work, THE PRESIDENT said they would look into his suggestion to establish a rota of available locums. On the motion of MR. O'DONNELL the congratulations of the Council were extended to Mr. Costello, the twenty-first anniversary of whose election to Council had coincided with the holding of the meeting. The Council, on the motion of MR. WALSH, also congratulated Messrs. Cremen and Gleeson who had been serving uninterruptedly as members since 1931.

Apologies for inability to attend were received from Messrs. Miller and Mulreany.

The Registrar reported on the deaths of George Hely, D.C.D., Robert Brownlow McBirney, R.D., and John George McMahon, Assistant.

Dr. A. T. Greene, Bride House, Loughrea, co. Galway, was granted registration as a pharmaceutical chemist, an L.A.H. certificate having been submitted.

The licence certificates of Mary S. Conway, Barbara McKeever, Anne McLaughlin, Helen M. Gorry, F. O'Donnell and W. Byrne were signed and sealed.

Mrs. Nora Normoyle, Marie Doherty, A. Cole, C. Folcy, W. J. Bertram, M. O'Connor, L. Ronaghan, T. R. Kehoe, A. Stockwell, F. G. Garvey and D. M. Fleming were elected to membership.

THE following were nominated for membership:—Mrs. Marita Murphy, Renmore Pharmacy, Galway; Helen Gorry, Chilcomb House, New Ross, co. Wexford; Mrs. Maud Hendy, 31 The Rise, Mount Merrion, co. Dublin; Pauline O'Hora, Bridge Street, Ballina, co. Mayo; Mary M. Tierney, 1a Ballinteer Road, Dundrum, co. Dublin; Mrs. Mary Murphy, 404 S.C. Road, Dublin, 8; Dr. Veronica Randles, 80 Frankurt Avenue, Dublin, 6; Cecilia Healy, 79 Palmerston Road, Dublin, 6; Dr. B. Crealey, 42 Calderwood Road, Dublin, 9; J. Sheil, 1 St. Brigids Road, Clondalkin, co. Dublin; J. G. Gleeson, 61 Phibsboro Road, Dublin; M. Burke, 6 Prospect Road, Glasnevin, Dublin, 9; J. O'Connor, 43 Somerton Park, Ballinlough Road, Dublin; D. Nunan, P.O. Box 133, Mufulira, Northern Rhodesia; F. S. Watson, Alandale, Mount Merrion Avenue, co. Dublin; M. G. McAvinchey, 19 Bellevue Avenue, Glenageary, co. Dublin.

### Addresses and Registrations

THE following changes of address were noted:—Mrs. Nora Brosnan, L.P.S.I., to 184 Iveragh Road, Whitehall, Dublin; Mrs. Kathleen Dockery, L.P.S.I., to 3 Sion Hill Road, Dublin, 9; Theresa Hunt, L.P.S.I., to 13 Glengarriff Parade, N.C.R., Dublin; Theresa McLoughlin, L.P.S.I., to 3 Barnaculla Park, Dalkey, co. Dublin; Dr. B. Crealey, M.P.S.I., to "Fanad," Bray Road, Foxrock, co. Dublin; R. C. O'Higgins, M.P.S.I., to Lower Stephen Street, Dublin; P. Cryan, L.P.S.I., to 43 Braemor Road, Dublin, 14; J. Clarke, L.P.S.I., to 3 Wilfield Park, Dublin, 4; P. Duggan, L.P.S.I., to 26 Herbert Place, Babbot Street, Dublin; K. Quinn, L.P.S.I., to "Deepdene," Kill Lane, Foxrock; P. J. Molloy, dispensing chemist and druggist, to 81 Homefarm Road, Dublin, 9; T. Meany, registered druggist, to 6 Winton Avenue, Dublin, 6. ASSISTANTS: Mesdames Mary Dunphy, to 29 Comeragh Road, Dublin, 12; Mary Gates, to 53 Westfield Road, Dublin, 6; Mary McEvoy to 63 Thomas Street, Dublin; Olwyn Naylor to 80 Dale Road, Stillorgan, co. Dublin; Anastasia O'Brien to Springfort House, Nenagh; Beatrice O'Higgins to Lower Stephen Street, Dublin; Eileen Lawlor to 17 Rowan Park Avenue, Blackrock, co. Dublin; Mary J. Matthews to 119 Silchester Park, Glenageary. The Misses Bridget Cantwell to 14 Nutley Avenue, Dublin, 4; Jane T. O'Connell to 20 Poddle Park, Kimmage, Dublin; Catherine Colbert to 52 Sundrive Road, Kimmage, Dublin; Josephine Bourke to 404 S.C. Road, Dublin; J. A. Browne to 22 Waterloo Road, Dublin, 4; M. Linnane to 213 N.C.R. Dublin, 7; E. M. Ryan to 13 Morchampton Terrace, Dublin, 4; M. Walshe to 19 Glenageary Terrace, Dun Laoghaire, co. Dublin.

THE following were granted preliminary registration in the Pharmaceutical Chemists' preliminary register:—M. Murphy, 24 Haddon Road, Dublin, 3; Honora C. O'Dwyer, Herbertstown, Kilmallock, co. Limerick; Anne M. McCauley, 5 Church Street, Enniscorthy, co. Wexford; Olive F. Arnold, Sunnyside, Loch Gowna, co. Cavan; P. G. Lenagh, Station Road, Cootehill, co. Cavan; J. J. McCormack, Meath Bridge House, Kilcock, co. Kildare; Geraldine M. Arnold, 40 Main Street, Arklow, co. Wicklow; Bridget B. Collins, 24 O'Curry Street, Kilkee, co. Clare; P. J. Thornton, Aughnagally House, Enniscorthy, co. Wexford.

THE following were granted registration in the Pharmaceutical Assistants' preliminary register:—Anne N. Kenny, Corrig Verdon, Sidney Park, Cork; Rita A. McEnroy, Carrickmakeegan, Ballinamore, co. Leitrim; P. Davey, Kilnamonagh, Collooney, co. Sligo; S. Coyle, Ballinagh, co. Cavan; Mary E. Fitzpatrick, Barrack Street, Loughrea, co. Galway; Elizabeth C. McMahon, Coobruss, Bruree, co. Limerick; Mary Crosse, Murgasty Road, Tipperary; Marguerite O'Toole, Henry Street Stores, Henry Street, Galway; E. Cotter, Clonmel Road, Mitchelstown, co. Cork; Elizabeth A. Crowley, 61 Glenomena Park, Blackrock, co. Dublin; Margaret T. Barry, Blackwater, Parteen, near Limerick.

THE following names were changed on the Registers, marriage certificates having been submitted:—Mrs. Etna M. Lee (née Garaghty), L.P.S.I., Mount Merrion, co. Dublin; Mrs. Mary Reaper (née O'Neill), L.P.S.I., Drimnagh, Dublin, 12; Mrs. Eileen Crowley (née Shanahan), Assistant, Clontarf, Dublin, 3.

Members present were:—Messrs. J. P. O'Donnell, M. L. Cashman, P. A. Brady, H. P. Corrigan, M. Costello, C. J. Cremen, Miss L. Cunniffe, J. Gleeson, T. Harty, F. Loughman, G. C. O'Neill, T. B. O'Sullivan, M. Power, R. J. Power, F. J. Robinson, R. J. Semple, M. F. Walsh.

At a meeting of the Benevolent Fund which followed, grants totalling £51 were passed for payment.

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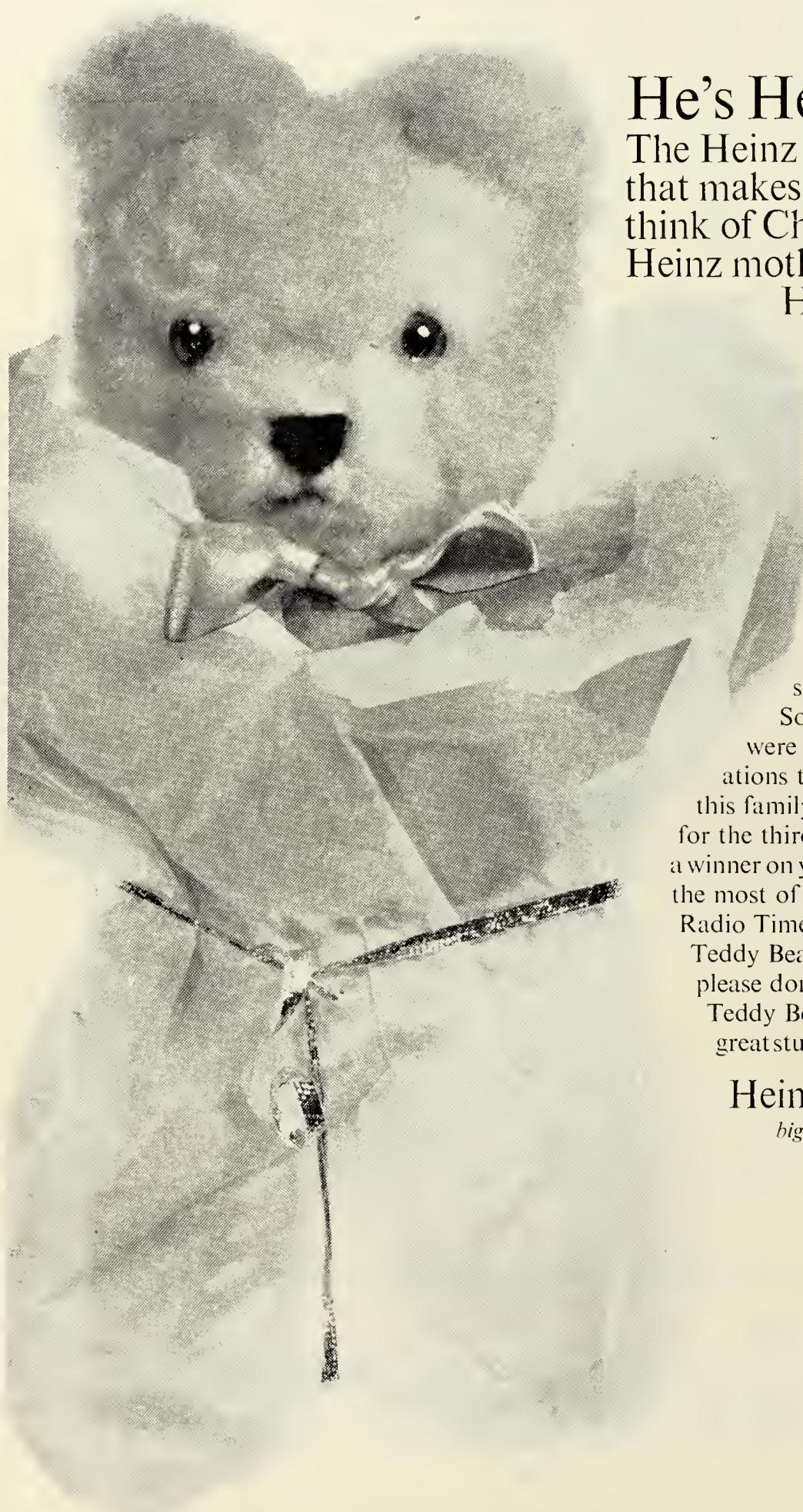


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# Pharmaceutical Society of Ireland

## ANNUAL MEETING IN DUBLIN

(Concluded from THE CHEMIST AND DRUGGIST, October 19, p. 424).

CONTINUING his remarks on the new regulations under the Poisons Act, 1963, THE PRESIDENT said that the Minister for Health was putting a heavy responsibility on the shoulders of pharmacists. The fact that the pharmacist's services were at present only being used when other means failed must not tempt members to treat the regulations lightly or casually. Every member of the profession must in all circumstances conform with the law: not to do so was a serious breach of professional, ethical and moral standards and rendered the person unfit to act as a pharmaceutical chemist. The Council had appointed two inspectors, and in Messrs. Cummins and Cahill they had two outstanding pharmacists, whom members could regard as friends of whose help they could avail themselves at all times.

### Responsibilities of Practice

The president refuted rumours alleging that the Society had embarked on a policy of selective inspection of pharmacies owned by chemists employed in dispensaries. However, any pharmacist who absented himself from his pharmacy—whether to work in a dispensary, a hospital or anywhere else—must ensure that the Pharmacy Acts were being observed. The Council was fully aware of the difficulty in procuring qualified staff, but students registering for the Assistants' course had complained that pharmacists were reluctant to act as apprentice masters. Unless pharmacists were so willing, they could not hope to alleviate the present acute shortage.

The Council took a serious view when professional fees were cut or ignored. That was a breach of professional conduct and ethics and encouraged a lowering of professional standards.

In a tribute to the late Mr. O'Regan (whose memory was observed by all standing in a minute's silence), he said he had been an outstanding personality in pharmacy. All who knew him were aware that he was the essence of professional pharmacy.

Proposing the adoption of the report, MR. J. GAFFNEY, Dublin, regretted that only 750 members had considered it worth while to vote. MR. J. F. PRENDERGAST, Dublin, seconded.

In reply to MR. E. BROWNE, Dublin, THE REGISTRAR (Mr. J. Coleman) said that in 1963, thirty-two students had passed the first pharmaceutical science examination and twenty-five the second year; twenty-six had passed the Second Professional examination conducted under the old conditions and sixteen the Pharmaceutical Assistants' examination. There was a drop in the numbers registering, but the precise extent of falling-off was not known.

The registrar confirmed that prospective apprentices had complained that local chemists would not take them. THE PRESIDENT pointed out that many pharmacists did not know the regulations and were telling applicants they had to have Latin and had to go to the university to do pharmacy. MR. J. P. BURKE, Dublin, suggested that lack of a public relations officer might be the cause. He had looked for an apprentice for five weeks before finding a suitable one. Demands from applicants were extravagant, and the majority of apprentices expected to be self-sufficient from the word "go."

MR. J. A. O'ROURKE, Dun Laoghaire, was of opinion that few pharmacists had the time to train apprentices.

MR. G. O'CONNOR, Dublin, asked under what provision it had been decided to remove names from the register for non-payment of fees. He held that names could not be removed except under the provisions of the old Act and thought nothing new had been added to that particular section. From two letters addressed to the Minister he had

had no clear answer that the Society had power to remove names for any reason other than those laid down in the 1875 Act. Mr. O'Connor was also interested in the part pharmacists would play in any future health scheme. It seemed that the Minister's plan was to abstract whatever professional service was left to retail chemists and channel it through dispensaries. The number of pharmacists was diminishing, and already dispensaries in Dublin were finding staffing difficult—"In this way it will be brought home to the Department that pharmaceutical chemists are no longer a dime a dozen." Referring to the College grant, he believed the final requirements for proper running would be much greater. It was too much to ask the Minister to give a small percentage of the turnover towards the running of the College. The alternative was completely to hand over education to the University while retaining control of the course and syllabus.

THE PRESIDENT, replying, recalled that the previous meeting had discussed whether it was constitutional to remove names from the register: there was only one way of testing it and that was through the courts. The Pharmacy Act stated that fees could be charged for membership and that, for those who were not members but wished to retain their names on the register, the Society could charge a retention fee. "If you do not pay, you cannot expect your name to be kept on the register." He agreed with all Mr. O'Connor had said about the future of pharmacy and believed that the Council's deputation had impressed the Select Committee investigating the health services with its arguments.

MR. J. C. TRAVERS, Dublin, suggested a notice on fees should be inserted in the public Press. THE PRESIDENT agreed, saying that time had been wasted by the Society in trying to find addresses of lady members who married after qualifying and had lost contact with headquarters. When MR. TRAVERS asked whether a person who ceased to be on the register could practise in a dispensary or hospital, THE PRESIDENT replied: "In my opinion, no. I think the hospitals and dispensaries employ them because they are pharmacists." MR. TRAVERS: They are pharmacists, but not on the register. THE PRESIDENT: Once they are off the register they are no longer pharmacists.

### "Cover" During Pharmacist's Absence

On the question of "cover," MR. TRAVERS asked whether a qualified pharmacist, while absent from a dispensary, must employ a qualified assistant or a pharmacist? THE PRESIDENT replied that the position of a qualified assistant was precisely defined in the Pharmacy Act: he was there to take temporary charge in the absence of a pharmaceutical chemist. "At present we have so much to contend with, we are tackling the more obvious breaches rather than this particular type of case." MR. F. M. MALLEY, Dublin, said it was only fair to all that what constituted proper coverage should be clearly defined. He asked that, within the next month, the Council should take legal opinion to have the authority of the qualified assistant defined clearly and *ex cathedra*.

MR. W. J. GILL, Dublin, thought there should be no such status as "chemist assistant." To qualify a man or woman as a temporary assistant was a form of dishonesty because, if a man could take over the responsibility of a pharmacy for up to three months, he should be entitled to open a shop of his own. In ten years' time a position would obtain regarding assistants similar to that which had obtained with drugists, and there would be another "legal quibble."

MR. MALLEY said that in no other profession were there qualified assistants. "I think this is one of the things which has helped to keep pharmacy down. If the qualified staff

is not available for hospital and dispensary work, the price will go up." There were too many retail pharmacists but not enough holding down the key positions in places where they were really wanted. It was deplorable that pharmacies should be run by nurses in some hospitals. THE PRESIDENT replied that the Council was actively considering the whole question of staff. The qualified assistant status operated in Scandinavia—where there was one of the highest pharmaceutical qualifications. In Britain there were no assistants and the tendency was towards some form of trained assistant. In Ireland they knew the danger of being without a pharmaceutical assistant, the alternative with most shops being the counter-hand.

MR. M. F. WALSH, Dublin, pointed out that having one's name on the register gave protection and also ensured exemption from jury service. There should be a distinction between dispensing and pharmacy: pharmacy, dealing with poisons, was a professional service, whereas dispensing was more concerned with counting capsules. However, he would prefer to see such work done by a qualified rather than a non-qualified person. MR. WALSH agreed with the president that there were more urgent problems waiting solution.

Replying to a query, THE REGISTRAR said there were about 2,600 names on the register, and, apart from any punitive aspect, it was necessary to "clean it up" and establish if members were dead.

MR. D. LEAHY, Dublin, asked what it was proposed to do in the event of an unfavourable reply being received from the Fair Trade Commission relating to the sale of "household remedies." What directive had the Council in mind for members? THE PRESIDENT said the Society, as such, had no jurisdiction in the matter, but he believed the Irish Drug Association had appointed a special committee to deal with it. In correspondence, the Commission had been left in no doubt as to what the Society considered the right thing to do, not only from the pharmacists', but from the public's point of view. "From what I can gather, the wording of the proposed rules is slightly changed. Nevertheless it means that any medicinal substance which is not controlled in law by *Comhairle na Nimheanna* may be sold through the 'most efficient and economic channels'." It had been pointed out that that would be contrary to public health and would encourage self-medication. The *Comhairle* was at present dealing with poisons and before the end of the year there would be a large number of controlled preparations.

MR. TRAVERS returned to the employment of people not on the register who were working in hospitals and dispensaries. THE PRESIDENT said that the body to answer his question was *Comhairle na Nimheanna* and, when the rules were made under the Poison Act, it was possible it might not be permissible for such people to act in hospitals or dispensaries.

MR. TRAVERS: Are you happy at present so far as the Society is concerned, that a man has a dispensary and a qualified assistant looking after his pharmacy?—THE PRESIDENT: I would not say "quite happy."—MR. TRAVERS: But you have told us you can do nothing about it.—THE PRESIDENT: It will have to be discussed on its merits when it comes before the Council meeting.

MR. P. O'BRIAIN, Dublin, instanced a case of a hospital pharmacist who could not get a locum but secured a qualified assistant for holiday work. When it had come to payment the hospital would not pay the assistant because it was found he had not been on the register. The pharmacist had had to pay him out of his own pocket. MR. R. C. O'HIGGINS, Dublin, said they were encouraging people to come into pharmacy as qualified assistants, yet the position in retail pharmacy was not known, nor was it known whether the Minister would decide to operate a future health scheme through pharmacies or dispensaries. "I think it is immoral to put people, particularly men, in such an uncertain position." Dealing with the new poisons regulations, he said they had taken from pharmacists the right to use their discretion, so that they could not now give a man suffering from asthma a tablet to ease his pain. "I feel that

discretion is the difference between me, a professional man, and an artisan."

THE PRESIDENT said he was available to local associations to explain the work being done on *Comhairle na Nimheanna*. While he had great sympathy for Mr. O'Higgins, it should be borne in mind that it was not the Council, or the doctors, veterinary surgeons or chemists who made the regulations, but the Government. The rules were being made to protect the public. In the past a pharmacist could use his discretion in selling various scheduled poisons, but modern drugs were of a different character, and many of them were highly addictive. Was a pharmacist the right person to decide whether asthma was bronchial or cardiac? As regards discretion, one pharmacist's views might differ from his neighbour's, and there was a danger that the rival chemist's discretion would be broader. The original pharmacist would then be inclined to make his broader still. All pharmacists must be aware of cases of discretion in repeating prescriptions where the doctor had given no such authority. That should not be tolerated: such practice had been the source of considerable embarrassment to pharmacists on *Comhairle na Nimheanna* when instances were cited. Many new preparations were not technically poisons at all, and yet they were controlled. That was because it would be contrary to public health to dispense them except on a doctor's prescription. "I think it would be difficult to convince the *Comhairle* to the contrary."

The president's report was unanimously adopted.

### Society's Finances

Presenting his annual report as treasurer, MR. M. L. CASHMAN disclosed that there had been a deficiency on the year's work of £390. He paid tribute to the firms that had contributed to the Pharmacy Fund. Regarding the £11,000 Government grant, he said there would still be considerable College expenses which had to be considered under the heads of capital and ordinary running expenses. The grant, he believed, would be adequate to meet the expenses of the College for the year, after the appropriate amount had been allocated to capital expenditure. It would also provide for payment of interest and redemption over a reasonable period of years. There could be no final decision on the future of the College until the Commission on Higher Education had issued its report. When final plans were drawn up it would be hard to keep the demands of the College down to £11,000.

Though there would be a considerable surplus when fees would be no longer applied to education, there had been increased expenditure in the current year through the appointment of two inspectors.

Proposing adoption of the report, MR. O'CONNOR said he was glad the first step had been taken towards shedding completely the burden of financing education. That was a step they had all been waiting for. MR. WALSH seconded and the report was adopted.

On the motion of MR. P. G. REDMOND, Dublin, seconded by MR. M. D. WALSH, a vote of thanks was passed to the president.

### ECHOES OF THE PAST THE LEPROSY

From "Primitive Physick: or, an Easy and Natural Method of Curing Most Diseases," by John Wesley, London, 1772.

USE the cold Bath:

Or, apply Nettles bruised in a Mortar.

Or, Wash in the Sea, often and long:

Or, Wash the Parts with Juice of Calamint:

Or, mix well an Ounce of Pomatum, a Dram of powder'd Brimstone, and half an Ounce of Sal Prunellæ; and anoint the Parts so long as there is Need:

Or, add a Pint of Juice of Houseleek, and half a Pint of Verjuice, to a Pint and a half of Posset-Drink. Drink this in twenty-four Hours:—It cures also the Quinsy, and all sorts of white Swellings on the Joints:

Or, drink half a pint of Cellery-whey, Morning and Evening. This has cured in a most desperate Case:

# Pharmaceutical Society of Northern Ireland

## ANNUAL MEETING HELD IN NEW HALL

THE seven retiring members were declared re-elected to the Council at the annual meeting of the Pharmaceutical Society of Northern Ireland held in Belfast on October 7. They are Messrs. W. H. Boyd, W. P. Ewart, H. W. Gamble, J. Gordon, A. T. Hardy, W. T. Hunter (pharmaceutical chemist representatives) and R. M. Watson (registered druggist representative).

Before presenting his report THE PRESIDENT (Mr. D. Moore) apologised to those present for the fact that the new hall (in which the meeting was held) was not yet complete but said that, due to the rebuilding programme, no other accommodation was available. When completed in a few weeks time the hall would provide seating accommodation for 250 people and facilities for serving refreshments. It was hoped that the hall would then be in frequent use for lectures and talks. The first stage in the rebuilding scheme, the provision of a flat at the top of the Society's House for the caretaker was to have been finished by Christmas, 1962. Unfortunately, delays had taken place and the caretaker would not be able to move into the flat until April. Work on the ground floor was further held up and in addition the contractor had been asked to undertake work not included in the contract. The former Council room was being divided in two to provide office accommodation for the Ulster Chemists' Association. That work was well under way but would not be complete for at least another month. The existing facilities for meetings in other parts of the Society's House would be made available to the U.C.A.

### Pharmacy Department Delay

In his address, the president referred to the establishment of a new department of pharmacy at the College of Technology, Belfast, where a further delay had occurred in the provision of new laboratories. Belfast County Borough Education Committee seemed unable to make up their minds whether the reorganisation, structurally, of the existing College should take place or whether a new College should be built. The Council were not prepared to wait indefinitely for concrete evidence that past promises would be fulfilled.

Because of the lack of suitable facilities for research there had been no application for the C. W. Young scholarship. The president was pleased that Miss M. E. Maguire had been awarded the Theophilus Harper Foundation for research at College of Science and Technology, Chelsea. The standard of performance at the Society's examinations had been much the same as in 1962 but at the additional examination for old syllabus candidates the results had been disappointing, only four of the twenty-three candidates being successful.

He was pleased to tell the members that an approach had been made to the Council by the Pharmacy Board of New South Wales about a reciprocal agreement and at present a draft was under consideration. The president explained that no lectures were possible whilst work of rebuilding was going on at the Society's House and also referred to the splendid achievement of the House Committee which had had frequent meetings throughout the year. The Benevolent Fund was in a healthy condition, but the continued support of every member was necessary.

The president said that the following members had passed away during the year and extended sympathy to their relatives:—R. J. Edwards, Mrs. May Finlay, R. Kells, G. S. Lynn, R. B. McBirney, W. J. McKee, H. L. Phillips, G. O. Robinson, S. J. Stevenson and S. Warnock.

THE TREASURER (Mr. R. M. Watson) reported that income for the year had exceeded expenditure by £401 15s. 11d. However, next year would see additional expenditure by way of increased rates and higher lighting

and heating costs. There would be a reduction in income due to the realisation of the Society's investments with consequent loss of interest. There were also outstanding capital commitments arising out of the building operations. MR. A. W. KERNAHAN said that he was pleased to see that the C. W. Young Scholarship Fund now amounted to £5,643. He understood Mr. A. T. Hardy had given the Council the benefit of his advice in investing the money and complimented him on his choice. Already there had been a free issue of shares in two of the investments chosen.

A general discussion took place on the type of lectures preferred by members and the president undertook to see what arrangements could be made. On the motion of MR. W. H. BOYD, seconded by MR. R. G. P. McMULLAN, the president was thanked for his conduct of the meeting.

### From Apothecary to Pharmacist A STUDY OF CHANGES OF TITLE TITLES USED IN ICELAND

T. D. Whittet

FORMERLY a Danish possession, a free and independent country under the Danish crown 1918-44, Iceland has since then been an independent republic. It associated itself closely with the Scandinavian states and played its part in the preparation of a joint Nordic pharmacopoeia. The



An Iceland pharmacy.

language of the island is Norraens, which has close affinities with Anglo-Saxon. The Icelandic word used for the profession of pharmacy is LYFJAFRAEÐI (the letter ð is pronounced like the English th). The pharmacy, as a building, is called either APOTEK or LYFJABUÐ, whilst its owner is the APOTEKARI or LYFSALI.

The association of pharmacy owners is the APOTEKAFELAG ISLANDS and the pharmaceutical society the LYFJAFRAEÐINGFELAG.

The title for a qualified person, not an owner, is LYFJAFRAEÐINGUR, but the title CANDIDATUS PHARMACIAE (cand. pharm.) is sometimes used as it was in Denmark before the title PROVISOR was adopted for the pharmacist working in, but not owning, an apotek.

The author is grateful to Mr. K. Baerentsen (secretary of the Danish Society for the History of Pharmacy and of Medicine) for information on titles in Denmark and Iceland.

CLEAN BILL OF HEALTH: At Leeds Infirmary in 1960, £84,000 was spent on cleaning inside walls, floors and windows—£4,000 more than the expenditure on drugs.—Dr. Mary Catterall (senior registrar for respiratory diseases, Leeds Infirmary) at the National Society for Clean Air conference at Scarborough.

# 25 years of Sulphapyridine

Advances in chemotherapy that stemmed from the acceptance in 1938 of its specificity against the pneumococcus.

## 1. The Discovery of M&B 693

*If a man will begin with certainties, he shall end in doubts, but if he will be content to begin with doubts, he shall end in certainties.*

—FRANCIS BACON

**A** FEW months more than a quarter-century ago the *Lancet* published a report of the successful use of a new compound M&B 693 (sulphapyridine) in clinical trials on patients infected with pneumococci. The drug had been discovered in 1937 in the May & Baker research laboratories, as a result of one of the earliest programmes of large-scale, planned, yet speculative, research to be undertaken by a pharmaceutical company. Although the earlier sulphanilamide had been shown to have a significant pharmacological action, there was no firm indication that any of its derivatives would have an enhanced value, or that they would be any less toxic, than the earlier discovery.

The research had its origins in work done twenty-five years previously. In 1910 Paul Ehrlich had discovered that certain dyes had an affinity for specific body tissues and were toxic to them. From that finding he argued that it would be possible to inject the living body with dyes having an affinity not for tissues but for germs. After further work investigating the "magic bullets," as he termed them, Ehrlich synthesised arsphenamine, which had a specific action on spirochaetes. Thus came into use the first chemotherapeutic agent, the first drug to exert some measure of control on an invading organism without destroying the human host.

The discovery stimulated much new thought, and prompted the search for systemic drugs. Much of Ehrlich's work had been with dyestuffs, and it was in that field that work was chiefly concentrated. For a long time it was believed that the colour of those substances had something to do



The late Dr. A. J. Ewins, F.R.S.

with their efficiency, a hypothesis that appeared to be supported by Domagk's discovery in 1935 of the anti-streptococcal activity of the red dyestuff sulphanilochrysoidin, synthesised in Germany. That drug was found clinically useful for a short time, especially in the treatment of puerperal fever. The red dyestuff contained a sulphonamide radicle, but it was left to the French workers, Tréfouel, Tréfouel, Nitti and Bovet to show that the activity of the dye was due to the sulphonamide portion of its molecule. Sulphanilamide, the only other sulphonamide known at the time, had certain *in vivo* activity but was too toxic for widespread use. The search for better sulphonamides was on.

In 1936 the late Dr. A. J. Ewins, working with a small team of chemists (Newbery, Stickings, and Phillips) commenced his work on the sulphonamides in the May & Baker research laboratories. At times the research must have been discouraging. For eighteen months the investigations continued, with no results to show for all the hours of meticulous work, all the compounds either showing no chemotherapeutic activity or proving too toxic for use.

### Synthesis Recorded

On November 2, 1937, compound number 693, 10 gm. of which was synthesised by Dr. M. A. Phillips, was recorded as 2(*p*-amino-benzene-sulphonamido)-pyridine. A sample was sent to Dr. Lionel Whitby, then a pathologist at the Middlesex Hospital, London. Whitby tested the new substance on mice that had been heavily infected with pneumococci. They lived. When the new substance, sulphapyridine, was similarly tested in the laboratory against staphylococci, streptococci, meningococci and gonococci, it was shown to be highly active against those organisms also. Dr. Whitby's work was published in the *Lancet* in May 1938.



A section of the laboratory in which M&B 693 was discovered.

| No.   | Symbol   | Name & Formula of substance  | Remarks                                      |
|-------|----------|--|--|
| T 687 | 5.50     | 4,4'-dacetamido diphenyl sulphate  |  |
|       | 10.01    | $\text{C}_6\text{H}_5\text{CO} \text{NH} \text{C}_6\text{H}_4 \text{SO}_2 \text{O} \text{NHCOCH}_3$    |  |
|       | 5.10-37  |  |  |
| T 688 | 8.46     | 4,4'-diamino diphenyl ether.   |  |
|       | 10.01.   | $\text{NH}_2 \text{O} \text{C}_6\text{H}_4 \text{O} \text{NH}_2$ .                                     |  |
|       | 11.10-37 |  |  |
| T 689 | 8.51     | 4' carboxy 4 benzyl amino benzene sulphonamide.  |  |
|       | 10.01.   |  |  |
|       | 11.10-37 | $\text{HOOC} \text{C}_6\text{H}_4 \text{NHCO} \text{SO}_2 \text{NH}_2$ .                               |  |
| T 690 | 3.64     | 4-hydroxy 4 benzyl amino benzene sulphonamide  |  |
|       | 26.10-37 |  |  |
|       | 10.01.   | $\text{HO} \text{C}_6\text{H}_4 \text{NHCO} \text{SO}_2 \text{NH}_2$                                   |  |
| T 691 | A17      | 2(4-hydroxyethyl) 6 acetyl amino quinoline   | N 9.4, Theory 9.2                            |
|       | 26.10-37 |  | mp. 277-278                                  |
|       | 27.01.   |  | (0.5 gram)                                   |
| T 692 | A30      | 2(4-hydroxyethyl) 6 acetyl amino quinoline   | N 9.3 Theory 9.2                             |
|       | 2.11-37  |  | mp. 281                                      |
|       | 27.01.   |  | (3 gram)                                     |
| T 693 | P 67262  | 2- <sup>amino</sup> -( <sup>2-hydroxy-4-phenylsulphonamide</sup> )-4- <sup>aminophenyl</sup> pyridine. | N 16.8% (cal 16.9%)<br>mp. 175°<br>10 grams. |
|       | 10.01.   |  |  |
|       | 21.11-37 |  |  |
| T 694 | S.70.    | 4' amino 4 benzyl amino benzene sulphonamide   | 11.5 grams.                                  |
|       | 3.11-37  |  |  |
|       | 10.01.   | $\text{NH}_2 \text{O} \text{C}_6\text{H}_4 \text{NHCO} \text{SO}_2 \text{NH}_2$                        | N 14.9, 15.1 (cal 15.1)                      |
| T 695 | A36      | 2(4-hydroxyethyl) 6 amino quinoline  | N 11.0. Theory 10.7                          |
|       | 4.11-37  |  | mp. 230. (19g)                               |
|       | 27.01.   |  |  |
| T 696 | 8.245    | 4 amino benzyl Sulphonamido-methane  | N 12. 14.7%<br>mp. 180-190°<br>2.2.2.2.      |
|       | 10.01-37 |  |  |
|       | 2.2.2.2. | $\text{CH}_2\text{CH}_2\text{NH}_2 \text{SO}_2 \text{NH}_2$  |  |
|       | 2.2.2.2. |  |  |

Laboratory test-book entry recording the initial synthesis of M&B 693 (sulphapyridine).

First people to take the new drug with a view to an assessment of human tolerance to it were May & Baker biologists. The first patient to receive it was a Norfolk farm labourer suffering from pneumonia. He was in a terminal condition, but after receiving sulphapyridine his condition rapidly improved and he recovered. In a full trial that was then conducted at Birmingham on patients with lobar pneumonia, a 90 per cent. cure rate was observed. Bacterial pneumonia was no longer a killer disease. M&B 693 was found clinically effective in a wide range of other infectious conditions, including meningitis, gonorrhœa and puerperal fever; it curbed many other intractable conditions, such as bacillary dysentery.

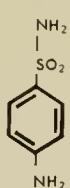
As a result of his work, Dr. Ewins was made a Fellow of the Royal Society. Dr. L. E. Whitby was later knighted.

and became Regius Professor of Physic and Vice-chancellor of Cambridge University.

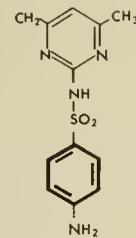
Later other sulphonamides were developed, both in Britain and abroad, but for some years sulphapyridine and sulphathiazole (M&B 760—also discovered by May & Baker) were the standard antibacterial agents. At that time penicillin was not much more than an interesting laboratory demonstration in Professor Fleming's laboratory at St. Mary's Hospital, London. Many tons of sulphonamides were supplied to the allied forces during the 1939-45 war, and they played their part in eliminating disease and preventing infection. Their rôle was brought into focus for the English-speaking world when, in 1943, Sir Winston Churchill was stricken with pneumonia in North Africa. Afterwards, he said in a broadcast, "This admirable M&B,



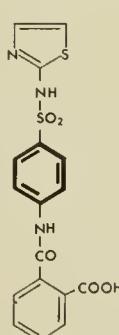
### Sulphonamidochrysoidine. Sulphanilamide.



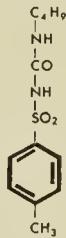
The chemical structure is a biphenyl system. The para position of the top ring is substituted with a sulfonimidazole group ( $\text{SO}_2\text{NH}-\text{Imidazole}$ ). The para position of the bottom ring is substituted with an amino group ( $\text{NH}_2$ ).



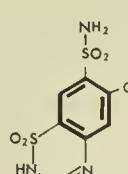
### Sulphapyridine.



### Sulphadimidine.



### **Phthalylsulphathiazole. Tolbutamide.**



### Chlorothiazide.

from which I did not suffer any inconvenience, was used at the earliest moment and, after a week's fever, the intruders were repulsed."

In the western world M&B 693 had now been largely

## 2. Rôle of the Sulphonamides in Medicine Today

MUCH has happened in the quarter-century since the initial synthesis of sulphapyridine. Medical and pharmaceutical knowledge has increased at a previously unheard-of pace; the advent of the antibiotics, radioisotopes, tranquillisers, and such techniques as extracorporeal circulation, the induction of hypothermia and renal transplantation has transformed medicine from a palliative art to a preventive and curative science. Although the 1939-45 war added urgency to the quest for medical knowledge, the initial impetus came with the discovery of the antibacterial action of sulphonamides—which established, both inside and outside the medical profession, the feeling that medicine could seek out and eliminate disease within the body, not merely treat its outward symptoms. What then of the sulphonamides? Do they have a place in medicine today? Do they have a place in a world where today's discoveries are only too often tomorrow's history?

After the 1939-45 war, when penicillin was first widely distributed, there was a swing away from the sulphonamides for the treatment of systemic infections. Penicillin burst upon the medical world with a ready-made reputation, and tended to be treated as a universal panacea. Rapidly it became the standard treatment for many infectious conditions. In many ways it was unsatisfactory; often it meant using an expensive sledge-hammer to crack a small nut.

After a time it became clear that penicillin had its limitations. Sensitivity reactions were not infrequently provoked, many resistant strains of bacteria emerged, and in some fields it was not as effective as the sulphonamides. In that last context, perhaps the most common examples are the uses of the sulphonamides in the treatment of meningococcal meningitis and in renal infections. Sulphonamides pass into the cerebrospinal fluid far more readily than do the antibiotics, and meningococcal meningitis probably constitutes the outstanding indication for sulphonamide therapy today; with early diagnosis and prompt treatment a high recovery rate is secured. Rarely penicillin may be required as an adjuvant.

The efficiency of the sulphonamides in the treatment of renal infections is due to their concentration in the kidneys. Apart from that specific application, the sulphonamides are still useful in the treatment of conditions that have become antibiotic-resistant, or in which there is an unwarranted danger in the use of one of the broad-spectrum antibiotics—as, for instance, in the treatment of intestinal infections. Sulphonamides are also used systemically for the many patients who are penicillin-sensitive.

### Three Main Groups

Chemically the sulphonamides may be divided into three groups, according to where substitution in the sulphanilamide molecule has taken place. The red dye discovered by Domagk (*p*-sulphonamidochrysoidine) is an example of amino substitution. Sulphathiazole, sulphadimidine and sulphaguanidine have amide-substituted groups; succinyl and phthalyl sulphathiazoles have both amino- and amide-substituted groups. On clinical grounds the two groups are more conveniently classified as systemic, as long-acting systemic, and as gut-active sulphonamides.

All sulphonamides have the same type of antibacterial action—they block the enzyme that utilises *p*-aminobenzoic acid—and differ only in their relative potency. However, bacteriostatic potency is not the only feature of a sulphonamide which determines its suitability for clinical use; other considerations, such as rapidity and completeness of absorption, rate of elimination, degree of acetylation

supplanted by the later sulphonamides and the antibiotics. Nevertheless it remains to this day one of the more potent sulphonamides, and one that is still in widespread clinical use in many eastern countries.

and of plasma binding, diffusibility into body fluids, and the tendency to produce the various forms of untoward effects collectively known as "toxicity," have an important bearing on the merits of a sulphonamide for the treatment of patients. Thus, while sulphathiazole is the most potent of the sulphonamides in common clinical use *in vitro*, it is not necessarily the most active when used in the treatment of patients, because of the difficulty of securing adequate blood levels owing to its rapid elimination. Moreover, it is less well tolerated than sulphadiazine and its derivatives. Sulphadimidine has the advantage that, on account of its solubility and that of its acetyl derivative, the risk of urinary tract deposition of crystals during its administration is low, but both its potency and its activity *in vivo* are appreciably lower than those of sulphadiazine. There is no "best" sulphonamide. The compounds each have their merits and demerits, the relative importance of which varies according to the particular circumstances of their use.

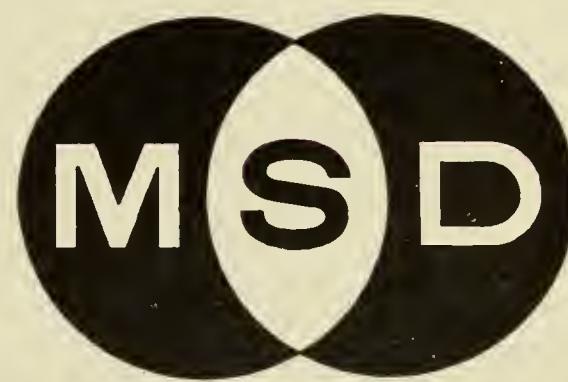
### Systemic Sulphonamides

The systemic sulphonamides, such as sulphathiazole and sulphadimidine, are absorbed in the stomach, duodenum and jejunum, and have applications in many systemic conditions, especially meningitis, and in renal infections. The use of a sulphonamide rather than penicillin in the treatment of gonorrhœa has been advocated by some authorities, as penicillin in moderate doses may shield an undiagnosed concomitant infection of syphilis without curing it; primary symptoms may be suppressed, and the disease may be present only as its secondary manifestations. In other countries sulphonamides are widely used in that context, because of their simplicity and cheapness. The soluble sulphonamides may also be employed in the treatment of bacillary dysentery, for it is now held that the condition stems from lesions in the intestinal wall, which are susceptible to treatment only via the blood stream.

The long-acting systemic sulphonamides, such as sulphadiazine, have similar pharmacological activity but are absorbed less quickly and have greater protein-binding properties. They have, therefore, a longer action, and dosage need not be so frequent. As a consequence it does, of course, take longer to attain the desired therapeutic blood level with one of those sulphonamides. Their low excretion rate also helps to prolong their action.

The gut-active sulphonamides, such as succinylsulphathiazole and phthalylsulphathiazole, are of use mainly for treating infections of the large and small bowel and the carrier stages of bacillary dysentery. Little of the drug is absorbed, and each has a strong bacteriostatic action within the gut without affecting peristalsis. The gut-active sulphonamides may also be used for prophylactic medication. These relatively insoluble compounds provide useful agents for sterilising the gut before surgery of the lower bowel.

The chief danger in administering the soluble sulphonamides in large doses is the risk of deposition of crystals in the urinary tract, because of the concentration that occurs in the urine. That is especially liable to happen when the patient is losing fluid in other ways (from vomiting or from diarrhoea). The usual measures suggested for diminishing the risk are a high fluid intake and maintenance of an alkaline urine. A more effective way of decreasing the tendency to crystalluria would be to decrease the dose of the sulphonamide, but that would also diminish its therapeutic effect. However, if a mixture of sulphonamides is administered in such quantity that the total dose is equivalent to the normal dose of one of the constituents, the desired therapeutic level of sulphonamide is main-



# MSD research

## a tradition of major achievements

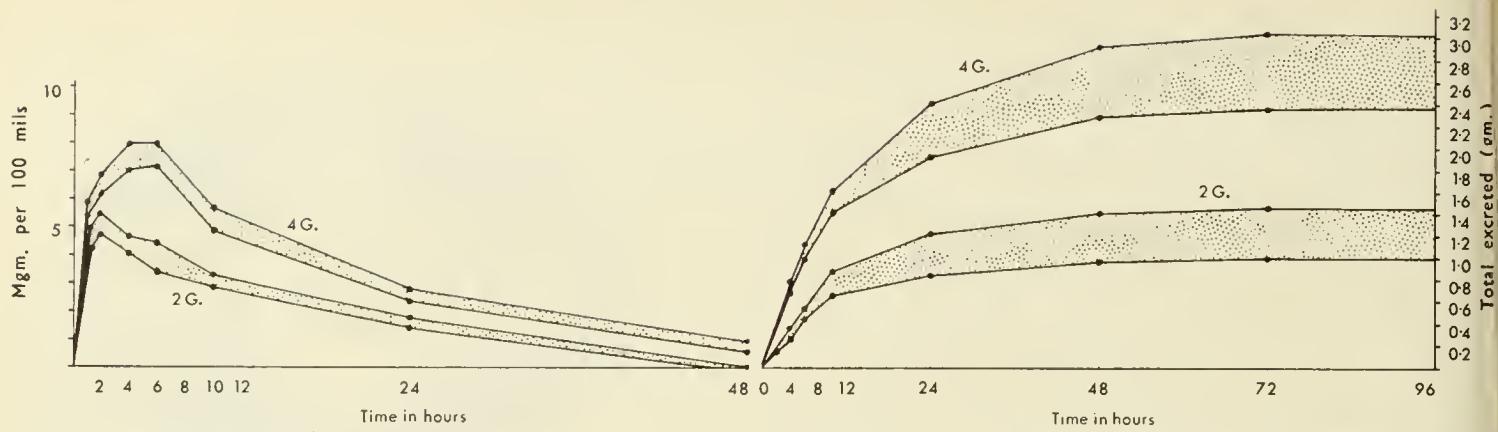
Merck Sharp & Dohme research has made many significant contributions to therapeutics and has revolutionised the treatment of certain diseases. The range has been remarkable—sulphonamides, vitamins, antibiotics, corticosteroids, cardiovascular drugs, diuretics, psychotherapeutics and many others. Below are listed some of the major scientific developments of Merck Sharp & Dohme since its modern research facilities were first established in the early nineteen thirties.

|      |  |
|------|--|
| 1940 | Sulphamerazine                             |
|      | Sulphadiazine                              |
| 1949 | 'Sulfasuxidine' (succinylsulphathiazole)   |
|      | 'Sulfathalidine' (phthalylsulphathiazole)  |
|      | Cortisone                                  |
| 1950 | 'Hydrocortone' (hydrocortisone)            |
|      | Vitamin K <sub>1</sub>                     |
| 1959 | 'Benemid' (probenecid)                     |
|      | 'Cogentin' (benztropine methanesulphonate) |
|      | 'Inversine' (mecamylamine hydrochloride)   |
|      | 'Cathomycin' (novobiocin)                  |
|      | 'Saluric' (chlorothiazide)                 |
|      | 'Decadron' (dexamethasone)                 |
|      | 'Hydrosaluric' (hydrochlorothiazide)       |
| 1960 | 'Periactin' (cyproheptadine hydrochloride) |
|      | 'Tryptizol' (amitriptyline hydrochloride)  |
| date | 'Aldomet' (methyldopa)                     |

*MSD research continues today at a higher level of endeavour than ever before*

**MERCK SHARP & DOHME LIMITED, HODDESDON, HERTS**

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**BLOOD CONCENTRATIONS**

Blood concentrations and urinary excretion rates in human subjects after single oral doses of 2 gm. and 4 gm. respectively of a mixture of sulphathiazole, sulphadiazine and sulphanamerazine. The shaded area represents the difference between free and total sulphonamide.

tained, though the concentration of any one of the constituents in the urine is much less. Consequently the tendency to crystalluria is considerably decreased.

Sulphonamide mixtures, and mixtures of sulphonamides and antibiotics, have come into wide use. Having a diminished tendency to cause crystalluria, they are also less likely to give rise to sensitivity reactions, as sensitivity is considered to depend partly on the tissue concentrations of each sulphonamide. There is also some evidence that the mixtures show an enhanced bacteriostatic action over similar doses of single sulphonamides, because the degree of acetylation of the constituent compounds is less than it would be if one of the constituents were present in a higher concentration, acetylated sulphonamides being inactive. Sulphonamide mixtures have also been used extensively for preventive mass-medication in Service establishments and mental institutions, because of their efficiency in combating epidemic bowel complaints and their freedom from side effects.

So far only the traditional types of sulphonamides, and their worth as anti-infection agents, have been considered. No review of sulphonamides could ignore other important

developments in sulphonamide chemistry that have produced compounds with quite different properties. Tolbutamide (N-butyl-N'-toluene-p-sulphonylurea) is a new and effective drug for the treatment of some forms of diabetes mellitus; it has the advantage that it may be administered orally, and it has been widely accepted in clinical practice. Another important development has been chlorothiazide-6-chloro-7-sulphamyl-1,2,4-benzothiadiazine-1,1-dioxide. The potent diuretic action of the compound promotes the excretion of sodium and chloride in equimolar amounts. Neither of those substances possesses antibacterial action, and their metabolites are highly soluble and therefore easily excreted. Further progress with sulphonamides in such fields seems inevitable.

Although, since 1937, sulphonamides have been supplanted in some of the more spectacular fields of medicine, they still have many important uses, and there are still conditions for which sulphonamide treatment is clearly the best. To forecast their position in another twenty-five years would be presumptuous, but certainly the sulphonamides will be of value to us in human and veterinary medicine for many years to come.

### 3. Compounds in the

S. J. HOPKINS, F.P.S.

THE group of drugs referred to generically as the sulphonamides are derivatives of *p*-aminobenzene sulphonamide, and possess that substance as part of their common structure. Their introduction marked the beginning of a revolution in therapeutics, as they were the first compounds to be of any real value in the treatment of bacterial infections. Though it is now about thirty years since the discovery of antibacterial properties in Prontosil rubrum, leading to the discovery that the sulphonamide grouping in that compound was responsible, the impetus given to medical and chemical thought by the discovery has not yet died away, as new compounds continue to appear. The newer derivatives have the same sulphonamide nucleus, but their properties and therapeutic applications have been modified by changes in the groups attached to the  $\text{SO}_2\text{N}^-$  side chain.

The basic mode of action of all sulphonamides is that of suppressing the synthesis by the invading organisms of pteroyl compounds, such as folic acid, which are essential growth factors for many bacteria. *P*-aminobenzoic acid is an essential intermediate in the metabolic process by which folic acid is formed and—according to the Woods-Fildes theory, which has much to support it—the sulphonamides act as competitive antagonists to that acid. They prevent the normal utilisation of *p*-aminobenzoic acid by the enzyme systems of actively growing cells, and so they are mainly bacteriostatic and not bactericidal in action. The sulphonamides are obviously effective only against those organisms that must synthesise their own folic acid. Bacteria that do

### Sulphonamide Series

S. J. HOPKINS, F.P.S.

not require folic acid, or that can make use of pre-formed folic acid, are not sensitive to the action of the sulphonamides.

At the same time it is evident that other factors must play some part, as certain sulphonamides show a greater specificity of action against some organisms than against others. That was apparent quite early in the history of the sulphonamides, when the increased potency of sulphapyridine against the pneumococcus was discovered. The differences are due to a combination of several factors, including the degree of dissociation at the pH of the blood, as well as the varying nature of the side-chain groups. As the sulphonamides are competitive antagonists of *p*-aminobenzoic acid, it is an axiom of treatment that the doses given must provide a sufficient concentration of the drug to prevent the utilisation of any environmental acid that might be available to the organisms, and to prevent the emergence of any resistant strains. An initial high dose and adequate maintenance doses are essential.

Pharmacologically, the available sulphonamides may be divided into three main groups: (1) the readily absorbed and excreted compounds; (2) the long-acting compounds; and (3) the poorly absorbed compounds.

Following oral administration, most of the sulphonamides are rapidly absorbed and become widely distributed in the tissues. Part of the absorbed drug becomes bound to the plasma proteins and, because of that plasma binding, the concentration of the drug in the cerebrospinal fluid is lower than that in the blood. The plasma binding may reduce

the effective blood level to that of the unbound portion but, as the combination of plasma and sulphonamide is a loose one, there is a gradual release of the drug into the tissues. The greater part of any absorbed sulphonamide is usually metabolised in the body and excreted in the urine as the acetyl derivative. The acetyl or conjugated forms have no antibacterial properties, though they retain the potential toxic properties of the unbound drug.

With the early compounds, the reduced solubility of the acetyl forms frequently led to urinary complications such as haematuria, crystalluria or even complete anuria. With the newer compounds, the acetyl form is often more soluble than the parent drug, and the risks of renal damage are reduced. Alkalisation of the urine increases the solubility of the acetyl derivatives, but an adequate intake of fluid remains an essential part of sulphonamide treatment. Mixed sulphonamides are occasionally used on the basis that each drug would be present in a lower concentration, and that the toxicity would therefore be reduced. Apart from renal complications, other side effects, such as nausea, vomiting and skin rash, may occur, but the majority of the newer drugs are well tolerated.

### Rapid-acting Compounds

**SULPHACETAMIDE:** One of the early sulphonamides, sulphacetamide is characterised by rapid absorption and rapid excretion. The blood levels obtained are lower than those obtained with other sulphonamides, but the high solubility of the drug in the urine, and the correspondingly low incidence of renal side effects, led to a wide use of the drug in infections of the urinary tract. Doses of 1-1.5 gm. four times a day have been given, but the drug is now less popular, more active compounds having become available.

**SULPHADIMIDINE (SULPHAMEZATHINE):** Sulphadimidine is characterised by a relatively low toxicity and a high solubility, and is one of the most widely used and effective of the systemically effective sulphonamides. The standard initial dose is 3 gm., followed by maintenance doses of 1 gm. four-hourly, and with such doses a blood level of 10-15 mgm. per cent. may be obtained. About 75 per cent. of the absorbed drug becomes bound to the plasma protein, and that binding is firmer than with sulphadiazine. The drug therefore diffuses into the C.S.F. more slowly and the more rapidly diffusible sulphadiazine is preferred in the treatment of meningitis. The sodium salt of sulphadimidine is soluble in water, and where oral therapy is impracticable it may be given by slow intravenous drip infusion. The solution is very alkaline. Though it has been given by deep intramuscular injection, such use should be avoided if possible. Sulphadimidine with sulphadimethoxy-pyrimidine is available as Bimez. The second ingredient is a long-acting compound similar in general to sulphamethoxy-pyridazine. The 3:1 mixture present in Bimez gives a high blood level of active drug with doses of 1 gm. daily.

**SULPHADIAZINE:** Sulphadiazine resembles sulphadimidine in many of its properties but, as it penetrates the blood-brain barrier more readily, is the preferred drug for the treatment of meningitis. The standard dose for most systemic injections is 3 gm. initially, with six-hourly maintenance doses of 1 gm. for seven days. In urinary infections lower doses may be given. About 50 per cent. of the drug becomes bound to the plasma proteins and, though toxic effects are uncommon, alkalis and ample fluids remain necessary. In severe meningitis the drug should be given intravenously for the first two days of treatment.

**SULPHAMERAZINE:** Sulphamerazine differs from sulphadimidine only in the absence of a methyl group from the  $\beta$ -position of the pyrimidine ring. That small difference has no significant effect on the antibacterial properties of the drug, but it brings about a marked reduction in the rate of excretion. With that change is associated an increase in toxic effects such as haematuria and renal damage. On that account sulphamerazine alone is now used less frequently, but is sometimes, in reduced doses, used with other sulphon-

amides, as in triple sulphonamide tablets. It is also present with sulphaproxyline in Dosulfin.

**SULPHAFURAZOLE (GANTRISIN):** Sulphafurazole is a 3,4-dimethylisoxazole derivative, and has a five-membered heterocyclic ring in the side-chain, whereas the pyrimidine derivatives have a six-membered ring. The drug is readily absorbed, and high levels are obtained in both blood and urine, so it is of value in both systemic and urinary infections. The high solubility of sulphafurazole, even in acid urine, reduces the risks of crystalluria and associated side effects. Average doses are 2-3 gm. initially, followed by 4-gm. daily in divided doses.

**SULPHAMETHIZOLE (UROLUCOSIL):** Sulphamethizole differs in several respects from most other sulphonamides. Chemically it is a thiazazole derivative of the sulphonamide base. Following oral administration it is rapidly excreted. By adjustment of dose and fluid intake, a relatively high concentration of the drug in the urine can be obtained, with a correspondingly low blood level. The degree of acetylation is slight, and an effective bacteriostatic effect in coliform infections may be obtained when doses of 100-200 mgm. are given five times a day. When sulphamethizole is administered fluids should be restricted, so as to obtain as high a level in the urine as possible.

**SULPHAPYRIDINE (M&B 693):** Sulphapyridine is of historical interest as one of the first sulphonamides effective in pneumococcal infections. Its marked toxic effects severely limited its use, and the drug is now no longer used for systemic infections. It survives as a therapeutic agent in dermatology for the treatment of dermatitis herpetiformis.

**SULPHASOMIDINE (ELKOSIN):** Sulphasomidine is the 2,4-dimethyl pyrimidine derivative of 6-p-aminobenzene-sulphonamide, and is therefore an isomer of sulphadimidine. In contrast to that drug, sulphasomidine is not readily acetylated in the body, and after oral administration about 90 per cent. of the drug is excreted in the urine in an uncombined and active form. Sulphasomidine also shows an increased urine-solubility, so alkalisation of the urine is not essential and the risks of renal toxicity are correspondingly reduced. The average daily dose is up to 6 gm., but doses as large as 10 gm. have been well tolerated.

**SULPHATHIAZOLE (CIBAZOL, THIAZAMIDE):** Sulphathiazole is one of the most active sulphonamides, but suffers from the disadvantages of rapid excretion and toxic side effects. In order to maintain an adequate blood level, doses of 1 gm. four-hourly are necessary but, as the acetylated form of the drug is largely insoluble, blocking of the renal tubules with consequent anuria may occur. Drug fever and rash are also more common than with other sulphonamides, and less toxic compounds are now preferred. A soluble neutral derivative of sulphathiazole, suitable for intravenous or intramuscular injection, is available as Soluthiazole.

### Long-acting Compounds

**SULPHADIMETHOXINE (MADRIBON):** Sulphadimethoxine is the 2,6-dimethoxypyrimidine derivative of the sulphonamide nucleus, and thus has some chemical relationship to sulphadimidine. It is rapidly absorbed when given orally, but excretion is much slower than with other drugs, so that adequate blood levels may be obtained with lower doses. A high proportion of a dose remains unacetylated and hence active. Part of the drug is excreted as glycuronide, which is more soluble than the parent drug, with consequently reduced risk of renal damage. A therapeutic blood level may be obtained with doses of 0.5 gm. daily.

**SULPHAMETHOXAZOLE (GANTANOL):** Described chemically as 3(4-aminobenzenesulphamido)-5-methyl isoxazole, sulphamethoxazole has the general range of antibacterial activity of the sulphonamides, but has also an increased degree of specificity against *Streptococcus pyogenes*. It is rapidly absorbed when given orally, but excretion is slow, and adequate blood levels may be obtained by doses of 1 gm. twice daily. About 60 per cent. of the drug

appears in the urine as the acetyl derivative, but as both the drug and the derivative are freely soluble, the risk of renal complications is correspondingly reduced.

**SULPHAMETHOXODYIAZINE (DURENATE):** As indicated by the systematic name, sulphamethoxydiazine differs from sulphadiazine only in the addition of a methoxy group, which is attached at the 5-position of the pyrimidine ring. That small change in structure is accompanied by distinct changes in the pattern of activity. The drug is absorbed as rapidly as sulphadiazine, and maximum blood levels are obtained four hours after administration. Excretion, however, is slow, and only 20 per cent. of a given dose is lost within twenty-four hours. In consequence adequate blood levels may be obtained from initial doses of 1 gm. followed by daily maintenance doses of 0.5 gm. With sulphamethoxydiazine, a large proportion remains unbound to the serum protein, with a consequent increase in diffusibility and activity, and only about 10 per cent. of the drug in the blood becomes acetylated. The excretion of the acetylated form is higher but, as the dose of the drug is low, there is little risk of renal damage due to crystalluria.

**SULPHAMETHOXYPYRIDAZINE (LEDERKYN, MIDCEL):** The sulphonamide sulphamethoxypyridazine, though rapidly absorbed following oral administration, is characterised by a very slow rate of excretion. Following an initial dose of 1 gm., therapeutic blood levels may be maintained with doses as low as 0.5 gm. daily. About 40-60 per cent. of the drug is acetylated in the body. Sulphamethoxypyridazine is freely soluble in acid urine, and is therefore of particular value in urinary infections, and the low dose further reduces the risks of renal toxic effects.

**SULPHAPHENAZOLE (ORISULF):** One of the long-acting sulphonamides, the compound sulphaphenazole is 5-*p*-aminobenzenesulphonamido-1-phenyl-pyrazole. It is rapidly absorbed when given orally, and peak concentrations in the blood are reached in four hours and maintained for about twelve hours. Standard dose in the treatment of infections is 1 gm. twice daily for two days, followed by 0.5 gm. twice daily. For prophylaxis in chronic bronchitis, urinary infections, and to prevent secondary bacterial invasion during influenza, daily doses of 0.5-1 gm. may be given.

**SULPHASOMIZOLE (BIDIZOLE):** Chemically, sulphasomizole is related to sulphathiazole, but differs from the older drug in possessing an *iso*-thiazole ring instead of the better-known isomeric thiazole ring, and in having an additional methyl group in the 3-position. Pharmacologically it differs sharply from sulphathiazole in the rate of excretion, as sulphasomizole is a long-acting compound. It is well absorbed orally, and therapeutic blood levels may be maintained with doses of 0.5 gm. twice daily. Renal tolerance is good, and crystalluria is unlikely, though the usual precautions of an adequate fluid and alkali intake should be observed.

The sodium salt of sulphasomizole is freely soluble in water, and such solutions have a pH of about 9. The solutions can, however, be buffered with the free sulphasomizole base to yield almost neutral solutions, and products are available for use by intramuscular or intravenous injection for the treatment of severe systemic infections. A 10 per cent. buffered solution for use as eye drops is also available.

### Locally-acting Compounds

**PORLY-ABSORBED SULPHONAMIDES:** In order to have a systemic effect, a drug must be absorbed, but several sulphonamides are known that are not absorbed sufficiently to exert any systemic effect. Conversely, such sulphonamides have an increased action locally, and are of considerable value in the treatment of bacillary diarrhoea, and in the preparation of patients for abdominal operations. Sulphaguanidine, one of the earlier compounds to be used in this way, is still used to some extent, but as an appreciable amount may be absorbed especially if the alimentary canal is ulcerated, the compound has largely been replaced by phthalyl and succinyl sulphathiazoles.

**SUCCINYL SULPHATHIAZOLE (SULFASUXIDINE):** In common with sulphaguanidine, succinylsulphathiazole has a powerful local bacteriostatic action, with the advantage of a reduced degree of absorption. Only about 5 per cent. of a dose is excreted in the urine, so systemic side effects are virtually nil. The drug is given in doses of 3 gm. every four hours for some days in bacillary dysentery but, for the prophylactic treatment of patients requiring intestinal surgery, phthalylsulphathiazole is often preferred.

**PHTHALYL SULPHATHIAZOLE (SULFATHALIDINE, THALAZOLE):** The antibacterial power of phthalylsulphathiazole is much greater than that of the succinyl derivative, and in consequence smaller doses may be used. The drug also has the advantage of causing less bowel disturbance, and is therefore frequently used in both watery diarrhoeas and in preparation for abdominal surgery. Phthalylsulphathiazole is given in doses of 2-3 gm. four times a day and, though about 5 per cent. of a dose may be absorbed, that small amount is rapidly excreted, and toxic side effects are uncommon.

**SULPHASALAZINE (SALAZOPYRIN):** Also known as salicylazosulphapyridine, sulphasalazine has some unusual properties. It is an acid-azo-sulphonamide and, unlike other sulphonamides, appears to have a special affinity for collagen-rich tissues. After oral administration the drug is taken up by the connective tissue of the intestines, in which a slow and partial breakdown into aminosalicylic acid and free sulphapyridine occurs. Only a small part of the drug is absorbed, and it reaches the circulation, so the major antibacterial effect is on the intestinal tissues. Sulphasalazine has been used extensively in the treatment of ulcerative colitis, but the response is variable, and may not be markedly superior to that following the administration of the systemically active sulphonamides. The average dose of sulphasalazine is 1 gm. four to six times a day. If the drug is well tolerated, treatment should be continued until proctoscope examinations indicate that the mucosa appears normal. The dose may then be reduced to three or four tablets of 500 mgm. daily.

## Any Business Questions?

*My partners and I have recently formed our business into a limited company. We have to decide where to have our registered office. It has been suggested that the best place might be at our auditors' office rather than at our business premises. What do you advise?*

THE registered office of a company is the official address, to which official and legal notices are delivered. The advantage in having it at your auditors' office is that official communications, such as income-tax assessments, are sent there instead of to your business premises. Your auditors will deal with many such documents in any event, and the suggested arrangement can help to avoid delays and to ensure that your affairs are dealt with promptly. On the whole the balance of advantage probably lies in making that arrangement, and most firms of accountants provide such a service.

*I bought some shares during the year, but unfortunately they have fallen considerably in value. I have not yet had them six months, and I thought that if I sold them now I could claim the loss against my other income. Is that correct?*

UNFORTUNATELY not. You will find that, unless you have made a short-term gain on other investments, you will be required to carry the loss forward to set against future profits of this nature.

*I paid a premium for my new lease. I understand that, for tax purposes, I may treat this as rent. Is this right?*

BROADLY speaking, the answer is yes. The Finance Act, 1963, makes provision to that end by providing that the part of the premium that is taxed in the hands of the recipient is treated as rent of the property paid over the period of the lease. The longer the lease, the smaller the taxable part, and the smaller, therefore, the amount that may be treated as rent.

*As from November 1st, 1963*

# PHARMACEUTICAL PRODUCTS LIMITED

*A Subsidiary Company of Savory & Moore Ltd.*

**OF 44-48 MAGDALEN STREET, NORWICH. NOR 95A**

*will be responsible for the manufacture, marketing  
and distribution of the undermentioned products:*

**CONDY'S FLUID**

**E.S.T.P.**

Dusting Powder

**DENISOL**

**GLACIER CREAM**

**DENTURAL**

**Dr. JENNER'S LOZENGES**

**EPICAFFNEINE**

**MEDILAX PELLETS**

**E.S.T.P.**

**QUINASP CAPSULES**

(Ether Soluble Tar Paste)

**STINGS CREAM**

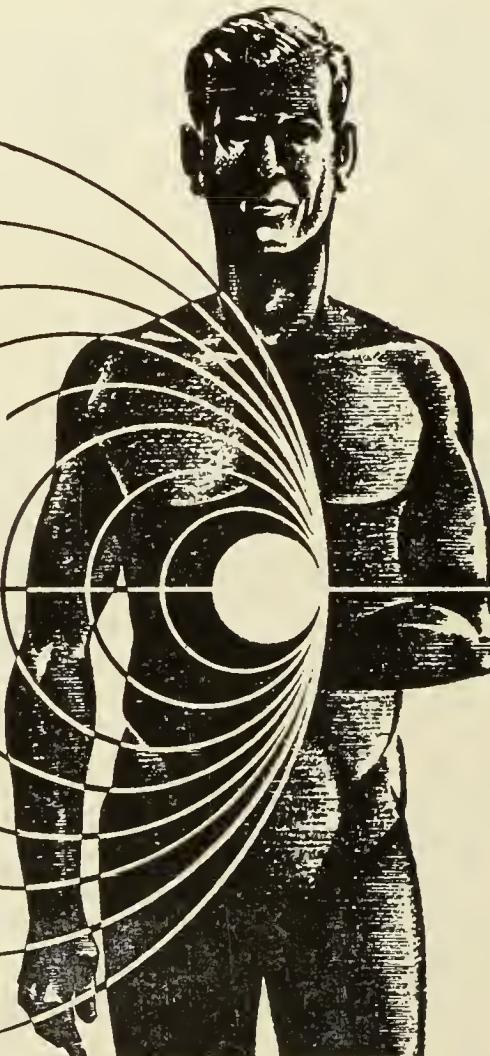
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Droxalin's unique efficacy in all forms of hyperacidity allied to superior palatability is winning this Acid Adsorbent more friends everyday.

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*Acid Adsorbent Tablets*

ACTIVE INGREDIENTS: Dried Aluminium Hydroxide Gel. B.P. 162 mg. Magnesium Trisilicate B.P. 162 mg.  
PACKING & PRICE: Cartons of 30, 3/- retail and dispensing packs of 180.

THE PHILLIPS, SCOTT & TURNER COMPANY • SURBITON • SURREY

## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 23: There were no important price changes in the CRUDE DRUGS market during the week and trading continued in the doldrums.

GINGER prices remained firm for spot or near-at-hand material; new crop Cochin was offered at 192s. 6d. per cwt., c.i.f. East Indian NUTMEGS were easier for shipment. IPECACUANHA offers have again mostly dried up. SENECA was dearer on the spot by sixpence per lb. upon the withdrawal of offers from origin. White SQUILL appeared to have been cleared on the spot and there were no firm offers from source. Tinnevelly SENNA PODS and LEAVES shipped from the port of Tuticorin were as follows:—

| Senna  | U.K.<br>tons | U.S.<br>tons | Europe<br>tons |
|--------|--------------|--------------|----------------|
| Leaves | —            | 63           | 55             |
| Pods   | 2            | 9            | 72             |

Among ESSENTIAL OILS Chinese ANISE was reduced by sixpence per lb. in both positions. Reports continued to be received confirming previous statements that new crop LAVANDIN supplies would be much lower this year than previously and also that price of LAVENDER was expected to rise. There was nothing new to report on CITRUS oils.

The most important feature of the PHARMACEUTICAL CHEMICAL market was an all-round increase in the price of QUININE and its SALTS by the British manufacturers. The SULPHATE, B.P., rose to 2s. 11d. per oz. from 2s. 8½d. and the HYDROCHLORIDE to 3s. 9d. from 3s. 3½d. for 1,000-oz. lots. NARCOTINES were short and have almost doubled in price. PILOCARPINE salts were also dearer. SUGAR prices continued to climb daily.

## Pharmaceutical Chemicals

ACETIC ACID.—Per ton, in bulk from £87 to £91 for B.P. glacial and £83 to £87 for 98-100 per cent. In drums of 90-gall. from £94 to £97 and £90 to £93 respectively. In 5-gall. demijohns, £104-£124 and £100-£120 respectively; containers extra and returnable at seller's expense. The technical 80 per cent. grade ranges from £69 in bulk to £110 per ton for 1 demijohn and 80 per cent. pure from £75 to £116.

ACETYL SALICYLIC ACID.—One-ton lots, 4s. 0½d. per lb.; 5-cwt., 4s. 5d.; 1-cwt., 4s. 8d.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 1934, carboys, 2s. 6½d. lb.

ARECOLINE.—ALKALOID, 51s. per oz.

BARIUM SULPHATE.—B.P. 50-kilo lots, 3s. 9½d. per kilo.

BORIC ACID.—B.P. grade in 1 ton and upwards (per ton): Granular, £84; crystals, £97; powder, £90 10s.; extra-fine powder, £92 10s. per ton in lined hessian bags, carriage paid in Great Britain. Less £1 per ton if supplied in paper bags. Technical from £70 to £80 10s. per ton according to type and packing.

BROMIDES.—Crystals (per lb.):—

|           | 1 cwt. |       | 5 cwt. |       |
|-----------|--------|-------|--------|-------|
|           | s. d.  | s. d. | s. d.  | s. d. |
| POTASSIUM | 2 6    |       | 2 5    |       |
| SODIUM    | 2 6    |       | 2 5    |       |
| AMMONIUM  | 2 10   |       | 2 8½   |       |

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

CHARCOAL.—Medicinal activated, B.P.C. in 1-cwt. lots, £22 10s. per cwt.

CHLOROCRESOL.—Pharmaceutical quality, 7s. 7d. per lb. (1-cwt. lots).

CHLOROFORM.—35-litre lots in winchesters, B.P., 10s. 11½d. per litre.

CHLOROXYLENOL.—B.P., 5s. 8d. per lb. for 1-cwt. lots; 5s. 3d. per lb. for 1-ton lots.

CHRYSAROBIN.—Per kilo, 5-kilo lots, 150s.

CITRIC ACID.—Domestic powder, in kegs, per cwt., 1-4 cwt. lots, 224s.; 5-19 cwt., 223s.; 1 ton, 222s. Crystals plus 10s. cwt. ANHYDROUS powder and granular plus 10 per cent. All less 7s. cwt. if packed in bags.

EPHEDRINE.—ALKALOID nominally 6s. 6d. per oz. SULPHATE, 4s. 6d. and HYDROCHLORIDE, 3s. 4d. per oz. Scarce.

GALLIC ACID.—B.P., 10s. 6d. per lb. for 2-cwt. lots. Technical grade 9s. 9d.

GLYCERIN.—Chemically pure B.P.:—

|             | Over<br>25 tons | 5 tons<br>and<br>under<br>25 tons | 1 ton<br>and<br>under<br>5 tons | Under<br>1 ton |
|-------------|-----------------|-----------------------------------|---------------------------------|----------------|
|             |                 | s. d.                             | s. d.                           | s. d.          |
| TANK WAGONS |                 |                                   |                                 |                |
| 10-14 tons  | 166 0           |                                   |                                 |                |
| 5-10 tons   | 167 0           | 169 0                             | —                               | —              |
| DRUMS       |                 |                                   |                                 |                |
| 5-10 cwt.   | 170 0           | 172 0                             | 175 0                           | 181 0          |
| 2½ cwt.     | 172 0           | 174 0                             | 177 0                           | 183 0          |
| 1 cwt.      | 174 0           | 176 0                             | 179 0                           | 185 0          |
| TINS        |                 |                                   |                                 |                |
| 56 lb.      | 189 0           | 191 0                             | 196 0                           | 205 0          |
| 28 lb.      | 195 0           | 197 0                             | 202 0                           | 210 0          |
| 14 lb.      | 201 0           | 203 0                             | 208 0                           | 216 0          |

Delivery of less than 1-cwt. charged 7s. 6d. extra. Drums charged and returnable. Minimum terms for technical grade glycerin s.g. 1.2627 are 161s. 0d. per cwt. for lots of over 25 tons in bulk deliveries of 10-14 tons.

GLYCEROPHOSPHATES.—Per lb. in 1 cwt. lots, 110s. per gm.; 100-gm., 105s. per gm. CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble, B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GLYCYRRHETINIC ACID.—Per oz., 50s.

HEXAMINE.—B.P., 1s. 6d. per lb. for 1-ton lots, delivered in 1-cwt. bags. Technical is 1s. 5d. per lb.

HEXAMINE MANDELATE.—50-kilo lots, 28s. 6d. per kilo; 1,000 kilos, 25s.

HYDROCHLORIC ACID.—B.P., 50s. per cwt. in carboys.

LACTIC ACID.—B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt. lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12 winchesters, 2s. 8d. per lb.

MERCURY DERIVATIVES.—Per kilo, under 50-kilo lots—AMMONIATED MERCURY, B.P., lump or powder, 51s. 6d.; PERCHLORIDE, B.P.C., powder, 43s. 9d.; SUBCHLORIDE (calomel), B.P.C., 50s. 6d.; OXIDES, yellow, B.P., 51s. 9d.; red B.P.C., 1949, 54s.

NARCOTINE.—Short. ALKALOID and HYDROCHLORIDE, 10s. per oz. (352s. 6d. kilo) for under 35-oz. lots.

OLEIC ACID.—B.P. grade, £176 10s. per ton. Small lots, 21s. 10d. per gall.

PILOCARPINE.—In 1-kilo lots prices are: HYDROCHLORIDE, 1,498s. per kilo; NITRATE 1,251s. 6d.

PYROGALLIC ACID.—One-cwt., pure crystals, 24s. 6d. per lb.; resublimed 26s. 6d.

QUININE.—1,000-oz. lots:—ALKALOID, 4s. 3d. per oz.; SULPHATE, B.P., 1932, 2s. 5d.; SULPHATE, B.P., 1958, 2s. 11d.; BISULPHATE, 2s. 10d.; DIHYDROCHLORIDE, 4s. 5d.; HYDROCHLORIDE, 3s. 9d.; HYDROBROMIDE, 4s.

SALICYLIC ACID.—One-cwt., 3s. 4½d. per lb.; 5-cwt., 3s. 2d. per lb.

SULPHURIC ACID.—Ninepence to 1s. 2½d. per lb. in winchesters.

TANNIC ACID.—The B.P. fluffy, 8s. 6d. per lb. (5-cwt. lots).

TARTARIC ACID.—(In kegs): 1-ton lots, 275s. per cwt.; 5-19 cwt., 281s.; 1-4 cwt., 284s. Bags 8s. cwt. less. Crystals 7s. per cwt. more than powder and granular.

THIOGLYCOLIC ACID.—Basic rates per lb., 97-98 per cent., 26-lb. packs, 15s.; 75 per cent., 11s. 6d. AMMONIUM THIOGLYCOLATE, 40 per cent. pH 9.3 (24-lb. packs), 6s. 8d.; MONOETHANOLAMINE THIOGLYCOLATE, pH 9.9, 4 per cent., 9s. 10d. All carriage paid and subject to purchase tax.

d-TUBOCURARINE CHLORIDE.—100-gm. lots, 60s. per gm.

ZINC CARBONATE.—One-cwt. lots, 1s. 11½d. per lb.; 1-ton, 1s. 8d.

ZINC CHLORIDE.—B.P.C. cake, 7s. per lb.; sticks, 7s. 10d. TECHNICAL, 115s. per cwt.

ZINC OXIDE.—Two-ton lots, B.P. grade, £100 per ton; 1-ton, £101.

ZINC PEROXIDE.—One-cwt. lots of B.P., 5s. 3d. per lb.

ZINC SULPHATE.—B.P., 1-cwt. lots, 1s. 6d. per lb.

## Industrial Chemicals, Solvents

ACETALDEHYDE.—The 100 per cent. is £122 per ton minimum 1-ton lots.

ACETATES.—Per ton, spot in drums: AMYL, 10-cwt. lots, technical, £254 and B.S.S., £256. BUTYL, 1-ton lots, £149; ETHYL, £124; ISOBUTYL (80 per cent.), £118; ISOPROPYL, £119.

ACETIC ANHYDRIDE.—12-ton lots £103 per ton; 2½-ton, £107, tanker deliveries.

ACETONE.—One-ton lots spot, £66 per ton in drums.

N-BUTYL ALCOHOL.—One-ton lots in drums, £131 10s. per ton and one-drum lots, £138 10s. per ton.

CARBON TETRACHLORIDE.—In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL.—Technical grade (99 per cent.) in tank car lots from 4s. 6d. to 4s. 8d. per gall.; anhydrous in drums, 7s. 1d. to 7s. 4½d. per gall.; in bulk, 6s. 11d. to 7s. 1d.

METHYL ETHYL KETONE.—One-ton lots, £121 10s. per ton in drums.

NAPHTHALENE.—Contract rates for phthalic grade are from about £27 per ton upwards in bulk, ex works; lower crystallising whizzed grades from £20 to £25 per ton ex works; ball and flake, £71.

PHTHALATES.—Prices (per ton) one-ton lots in drums: DIBUTYL, £182; DI-ISOBUTYL, £175; DI-ETHYL, £174; DI-METHYL, £163.

PHTHALIC ANHYDRIDE.—Domestic material quoted at £90 per ton.

SODA ASH.—Four-ton lots, 232s. 6d. per ton delivered.

STEARATES.—Spot prices for minimum 1-ton lots. — ALUMINIUM (all grades), 253s. 6d. per cwt. CALCIUM (precipitated), 243s. 6d. LEAD (30 per cent.), 223s. 6d.; MAGNESIUM (standard), 272s. and (superfine), 302s.; ZINC, 226s. to 286s. as to grade.

## Crude Drugs

ACONITE. — Spot. Spanish *napellus*, 2s. 8d. per lb.

ALOES. — Firm. Extra primes, 250s. per cwt. spot and 250s., c.i.f. for shipment. Curaçao, spot, 310s.; shipment, 300s., c.i.f.

ANISE. — Chinese STAR, 180s. per cwt. spot, duty paid; f.a.q. for shipment, 130s., c.i.f.

ARROWROOT. — St. Vincent from 1s. 3d. to 1s. 6d., as to grade.

BALSAMS. — Per lb.: CANADA: Spot 19s. 6d. to 22s. 6d. COPAIBA: B.P.C. grade 9s. 6d. PERU: Spot, 8s. 3d., duty paid. TOLU: B.P., from 10s. 6d. to 32s. 6d.

BELLADONNA. — Herb 2s. 3d. per lb., duty paid. ROOT, testing over 0.5 per cent., 1s. 8d. per lb.

BENZOIN. — Sumatra block, spot £18 10s. to £35 per cwt. as to quality.

BUCHU. — Spot, 4s. 3d. per lb.

CALAMUS. — Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CARDAMOMS. — Aleppy greens, 9s. 6d. to 10s. spot; shipment 10s. 8d., c.i.f. Seeds, spot 13s. 6d.; shipment, 12s. 3d., c.i.f.

CASCARA. — Spot, 250s. per cwt.; new peel for shipment 240s., c.i.f.

CHERRY BARK. — Thin natural, 1s. 9d. per lb.; shipment, 1s. 8d., c.i.f.

CHILLIES. — Zanzibar, 170s. spot; shipment, 160s., c.i.f. per cwt. Mombasa spot, 185s.; shipment, 132s. 6d., c.i.f.

CINNAMON. — BARK, Seychelles, 95s. per cwt. spot; shipment, 70s., c.i.f. QUILLS, Ceylon (per lb., c.i.f.): 4 O's, 7s. 3d.; single O, 6s. 6d.; quillings, 5s. 2d.

COCHINEAL. — Canary Isle black-brilliant nominal; silver-grey 16s. per lb. Peruvian silver-grey, 13s. 6d., spot; shipment, 12s. 6d., c.i.f.

COCILLANA. — Bark 2s. per lb. on the spot.

COLOCYNTH PULP. — Spot and shipment, nominal.

DIGITALIS. — *Purpurea* leaves, 2s. 6d. per lb.

ELEMI. — Spot, 1s. 4d. per lb.; shipment, 1s. 1d., c.i.f.

ERGOT. — Portuguese, 8s. 6d. per lb. spot and 8s. 3d., c.i.f.

GINGER. — (Per cwt.) African, spot 325s. per cwt.; shipment 285s., c.i.f. Jamaican No. 3 spot, 77s. Cochin, 295s.; shipment, 300s., c.i.f.; new crop offered at 192s. 6d., c.i.f.

HENNA. — Indian, for shipment, 75s., c.i.f.

HONEY. — (Per cwt.) Australian light amber, 160s. to 162s. 6d. and medium amber, 155s. to 160s. Argentine, 170s. to 172s. 6d.; Jamaican, 152s. 6d. to 157s. 6d.; Canadian, 170s. to 172s. 6d.; Mexican, 155s. to 160s.; all ex warehouse.

IPECACUANHA. — Shipment (c.i.f.): Matto Grosso, 69s. per lb. Limited spot offers of Costa Rican at 94s.

JUNIPER BERRIES. — Italian, 140s. per cwt.; German, 145s. spot.

KARAYA. — No. 1 gum, spot nominal; No. 2, 325s. per cwt.

KOLA NUTS. — African, 5d. spot and 4d., c.i.f. (per lb.).

LANOLIN. — ANHYDROUS B.P. is from 1s. 8d. to 1s. 10d. per lb. in 1-ton lots delivered free drums.

LIQUORICE. — Natural root: Russian, 65s. per cwt.; Anatolian, 57s. 6d.; Anatolian decorticated, 170s.; Sicilian 1-kilobundles, 1s. 8d. per lb. Block juice: Anatolian 210s. per cwt.; Italian stick from 400s. to 475s. per cwt.

MALEFERN. — Root for shipment quoted at 75s. per cwt., c.i.f.

MENTHOL. — Chinese: spot, 36s. per lb. duty paid; November shipment, 33s., c.i.f. Brazilian, 22s. 6d. in bond; shipment.

22s. 6d., c.i.f. Formosan, 27s. 6d. in bond; shipment, 25s., c.i.f.

MERCURY. — Spot ex warehouse has risen to £63 per flask of 76 lb.

NUTMEGS. — West Indian 80's, 8s. 6d. per lb.; defectives, 7s. East Indian for shipment: 80's, 7s. 4d. per lb.; 110's, 7s.; b.w.p., 5s., c.i.f.

NUX VOMICA. — Cochin, 75s. per cwt. on the spot; shipment, 47s. 6d., c.i.f.

PAPAIN. — For shipment: East African white, No. 1, from 37s. 6d. to 40s. per lb., c.i.f.

PEPPER. — White Sarawak spot, 2s. 11d. to 3s. per lb.; prompt shipment, 2s. 11d., c.i.f. Black Sarawak spot, 2s. 7d.; shipment, 2s. 4d. Black Malabar, 320s. per cwt. spot; shipment, 295s., c.i.f.

PIMENTO. — Spot quoted at 728s. per cwt.; shipment, 580s., f.o.b.

PODOPHYLLUM. — Spot, per cwt.: *Emodi*, 235s.; shipment, 225s., c.i.f.; *Peltatum*, 365s. spot.

PYRETHRUM. — Extracts—partially de-waxed, 25 per cent. pyrethrins, 69s. to 65s. 6d. per lb.; pale 82s. 6d. to 79s.; crude oleoresin, 60s. 6d.

QUILLAIA. — Spot, 150s. per cwt.; shipment, 120s., c.i.f.

RHUBARB. — Chinese spot cleared; shipment offers not available from origin.

SAFFRON. — Mancha superior about 200s. per lb. spot.

SEEDS. — (Per cwt.) ANISE. — Spanish, 280s., duty paid. CARAWAY. — Dutch, 167s. 6d., duty paid. CELERY. — Indian, 172s. 6d. spot; shipment, 142s. 6d., c.i.f.

CORIANDER. — Moroccan, 62s. 6d., duty paid (old crop, 60s.) shipment, steady at 52s., c.i.f. CUMIN. — Firm, Indian, 195s.; Iranian, 200s., duty paid; shipment, Iranian, 175s., c.i.f. DILL. — Indian, 77s. 6d. spot; shipment, 53s., c.i.f. FENNEL. — Indian, 125s., spot; shipment, 110s., c.i.f. FENUGREEK. — Moroccan firm at 50s., duty paid; shipment, 37s., c.i.f., paid.

MUSTARD. — English, 45s. to 75s. according to quality.

SENEGA. — Spot, 16s. per lb.; new crop for shipment, 15s. 6d., c.i.f., nominal.

SENNA. — (Per lb.) *Tinnevelly* LEAVES, spot: Prime No. 1, 2s. 3d.; prime No. 2 1s. 9d.; No. 3, f.a.q., 1s. 3d. PODS: hand-picked. *Tinnevelly* quoted at 3s. 1d. ex wharf. *Alexandria* PODS: Hand-picked from 4s. to 8s.; manufacturing rather scarce at 2s. 6d.

SHELLAC. — F.O.T.N., 192s. 6d. per cwt.; No. 1, 207s. 6d.; F.O., 225s. to 275s.

SQUILL. — New crop spot cleared; shipment, nominally 140s., c.i.f. per cwt.

STRAMONIUM. — Continental LEAVES 85s. per cwt. spot.

STYRAX. — Spot, 21s. per lb.; shipment, 20s., c.i.f.

TONQUIN BEANS. — Para spot, 5s. 4d. per lb.; shipment, 4s. 10d., c.i.f.; Trinidad, 7s. 6d., spot.

TRAGACANTH. — No. 1 ribbon about £195 per cwt. No. 2, £180, spot.

TURMERIC. — Madras finger spot, 150s. per cwt.; shipment, 145s. to 147s. 6d. per cwt. quoted.

VALERIAN ROOT. — Spot: East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 205s. 6d. c.i.f.

VANILLIN. — Rates (per lb.) are now:— 5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

WAXES. — (Per cwt.): BEES'. — Dar-es-Salaam, spot, 440s.; shipment, 415s., c.i.f. Abyssinian, spot, 390s., in bond; shipment, 385s., c.i.f. CANDELILLA, spot, 465s.; forward, 460s. landed. CARNAUBA, fatty grey, spot, 295s.; shipment, 272s. 6d., c.i.f.; prime yellow, spot, 740s.; shipment, 672s. 6d., c.i.f.

WITCH HAZEL LEAVES. — Spot quotations are 2s. 6d. per lb.

## Essential and Expressed Oils

ANISE. — Chinese, 15s. 6d. per lb. spot; shipment, 15s., c.i.f.

BAY. — West Indian about 25s. per lb. on the spot.

BIRCH TAR. — Rectified, 8s. per lb.

CADE. — Spanish, 2s. 6d. per lb. for drum lots.

CANANGA. — Spot, 25s. per lb.

CARDAMOM. — Indian from 260s. to 275s. per lb., spot.

CELERY SEED. — Quotations are from 116s. per lb.

CHAMOMILE. — Smalls 640s. per lb.

CINNAMON. — Best English-distilled, 720s. per lb.; other B.P. oils from 22s. to 120s. per lb. Ceylon leaf, 13s.; Seychelles from 7s. 6d., spot.

CITRONELLA. — Ceylon spot, 9s. 6d.; shipment, 9s. 4d. per lb., c.i.f. Formosan, 8s. 3d., in bond; October-November shipment, 7s. 9d., c.i.f. Chinese, November shipment, 7s. 9d., c.i.f. and 7s. 9d., spot.

COD-LIVER. — B.P. is 11s. 6d. per gall. including charged returnable drums. Veterinary is from 9s. 6d. per gall. Delivered terms, 25-stone lots.

CORIANDER. — Russian oil, 40s. 6d. per lb., spot.

CUBE. — Spot supplies of imported are 85s. per lb.

EUCALYPTUS. — B.P. 5s. 9d. and 6s. 3d. per lb. on spot for 70-75 and 80-85 respectively.

FENNEL. — Spanish sweet, spot, 10s. per lb.

GERANIUM. — Bourbon, 90s. to 100s. per lb. on the spot.

LAVANDIN. — From 14s. 6d. to 15s. per lb. as to quality.

LAVENDER. — French spot, 30s. to 40s. per lb. as to quality.

LEMON. — Spot Sicilian from 36s. to 46s. per lb.

NUTMEG. — West Indian B.P. oil is about 75s. per lb. English distilled, 100s.

ORANGE. — Floridan sweet oil, 7s. per lb. nominal; shipment, 5s. 3d., c.i.f. South African and Rhodesian, 8s.; West Indian, 10s.; Spanish, 15s. to 17s. 6d., spot.

PATCHOULI. — Penang is 22s., duty paid and 19s. 6d., c.i.f., per lb.

PENNYROYAL. — Spot, 12s. per lb., duty paid.

PETITGRAIN. — Paraguay, 18s. per lb., spot; shipment, 17s. 6d., c.i.f.

PIMENTO. — English-distilled berry from 150s. per lb. Rectified leaf, 19s. 6d. per lb.

PINE. — *Pumilionis*, 30s. per lb.; *sylvestris*, 9s.; *abietis*, 15s. to 24s.

ROSEMARY. — Spanish genuine is 9s. 6d. per lb. spot.

RUE. — Spanish is 23s. 6d. per lb., spot.

SASSAFRAS. — Brazilian is from 2s. 6d. per lb., duty paid.

TANGERINE. — Sicilian from 27s. 6d. to 48s. per lb., as to quality.

VETIVERT. — Bourbon spot, 85s. to 105s. per lb.; shipment, 95s., c.i.f.

YLANG-YLANG. — Best oil quoted about 145s. per lb.

## UNITED STATES REPORT

NEW YORK, OCTOBER 22: Medicinal COD-LIVER OIL was raised 10 cents to \$1.40 per gall. Higher per lb. among ESSENTIAL OILS were PATCHOULI at \$4, up 25 cents, 30-32 per cent. LAVENDER OIL at \$2.75, up 45 cents, and 40-42 per cent. LAVENDER at \$4.65, up 45 cents. Lower per lb. were Florida ORANGE at 60 cents, down 10 cents; BOIS DE ROSE at \$2.65, down 10 cents; and CARDAMOM at \$32, down \$1.

## PRINT AND PUBLICITY

PRESS ADVERTISING

PHILIPS ELECTRICAL, LTD., Century House, Shaf-



**DISPLAY "DISPENSER":** To support current advertising of Geeps and Junior Geeps cough pastilles, Smith, Kendon, Ltd., 132 Borough High Street, London, S.E.1, have produced the display dispenser illustrated. Stockists are being offered advantageous terms for the products. In just three years, the makers claim, Geeps have become one of the best known cough pastilles on the market. Advertisements are currently appearing in television journals.

## COMMERCIAL TELEVISION

Figures in these columns represent number of appearances of the "spot" during the week.

November 3-9

|                                | London | Midland | North | Scotland | Wales | South | N.E. | Anglia | Ulster | Westward | Border | Grampian | Eireann | Channel Is. | W. & N. Wales |
|--------------------------------|--------|---------|-------|----------|-------|-------|------|--------|--------|----------|--------|----------|---------|-------------|---------------|
| 4711 eau de Cologne ...        | ...    | ...     | —     | —        | —     | —     | 2    | —      | —      | —        | —      | —        | —       | —           | —             |
| Anadin tablets ...             | ...    | ...     | 8     | 4        | 1     | 5     | 5    | 2      | 3      | 2        | 4      | 1        | 1       | 5           | —             |
| Andrews liver salt ...         | ...    | —       | —     | —        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Askit powder and tablets ...   | ...    | —       | —     | —        | —     | 14    | —    | —      | —      | —        | —      | —        | 1       | —           | —             |
| Atrixo ...                     | ...    | —       | —     | —        | 3     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Beecham powders ...            | ...    | 5       | 4     | 4        | 4     | 5     | 5    | 5      | 5      | 5        | 4      | 5        | 3       | —           | 5             |
| Bisodol ...                    | ...    | 1       | —     | —        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Cuticura products ...          | ...    | 3       | 1     | —        | —     | —     | 2    | —      | —      | —        | —      | —        | —       | —           | —             |
| Dentu-ereme ...                | ...    | —       | 1     | —        | 1     | 1     | —    | —      | 1      | 1        | 1      | 2        | 2       | —           | 1             |
| Derma Fresh hand lotion ...    | ...    | 2       | 1     | 2        | 1     | 1     | 2    | —      | 2      | —        | 2      | —        | —       | —           | 1             |
| Dethmor warfarin ...           | ...    | —       | 1     | 1        | —     | —     | 1    | 1      | 1      | 1        | 1      | 1        | —       | 1           | —             |
| Disprin ...                    | ...    | 6       | 2     | 5        | 2     | 1     | 2    | 1      | 3      | —        | —      | —        | 1       | —           | —             |
| Euthymol tooth-paste ...       | ...    | 1       | 1     | 1        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Get Set hair-spray ...         | ...    | 2       | 2     | 2        | 2     | —     | 2    | —      | 2      | —        | —      | —        | —       | —           | —             |
| Gillette razor blades ...      | ...    | 4       | 4     | 4        | 4     | 4     | 4    | 4      | 4      | 4        | 4      | 4        | 4       | 4           | 4             |
| Goddard's embrocation ...      | ...    | 1       | —     | —        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Imperial Leather soap ...      | ...    | 3       | 3     | 2        | 3     | 4     | 3    | 3      | 3      | 2        | 3      | 3        | 2       | —           | —             |
| Kleenex tissues ...            | ...    | 3       | 2     | 3        | 2     | 2     | 4    | 2      | 3      | 1        | 2      | 3        | 2       | —           | —             |
| Loxene shampoo ...             | ...    | 1       | 1     | 2        | 1     | 1     | 2    | 2      | 1      | 2        | 2      | 3        | 1       | 1           | 1             |
| hair cream ...                 | ...    | —       | 1     | —        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| Macleans tooth-paste ...       | ...    | —       | —     | —        | —     | 2     | —    | 3      | —      | —        | —      | —        | —       | —           | —             |
| Milk of Magnesia tablets ...   | ...    | —       | 2     | 2        | 2     | 2     | 2    | 2      | 2      | 2        | 2      | 2        | 3       | 2           | 2             |
| Moorland tablets ...           | ...    | —       | 2     | 2        | 2     | —     | 1    | 2      | 2      | 2        | 3      | 2        | —       | —           | 4             |
| Nulon hand cream ...           | ...    | —       | 2     | 2        | 3     | 1     | 1    | 2      | 1      | 2        | 1      | 2        | 3       | 2           | —             |
| Owbridges lung tonic ...       | ...    | —       | 3     | 3        | 3     | —     | 3    | 3      | 3      | 3        | —      | —        | —       | —           | —             |
| Penetrol inhalant ...          | ...    | —       | 1     | 1        | —     | 2     | —    | 2      | 2      | —        | —      | —        | —       | —           | —             |
| Phyllosan ...                  | ...    | 3       | 3     | 3        | —     | 3     | 3    | 3      | 3      | —        | —      | —        | —       | —           | —             |
| Please choc-drops for dogs ... | ...    | —       | —     | —        | —     | —     | 3    | —      | —      | —        | —      | —        | —       | —           | —             |
| Rinstead pastilles ...         | ...    | 1       | 1     | —        | 1     | 1     | 1    | 1      | 1      | 1        | 1      | —        | 1       | —           | —             |
| Setlers ...                    | ...    | 1       | —     | 2        | —     | 1     | 2    | —      | —      | 2        | —      | —        | —       | —           | —             |
| Velvet toilet tissues ...      | ...    | 4       | —     | —        | —     | 4     | —    | —      | —      | —        | —      | —        | —       | —           | —             |
| VO-5 conditioner ...           | ...    | 1       | 1     | 1        | 1     | 1     | —    | 1      | —      | 1        | —      | 1        | —       | —           | —             |
| hair-spray ...                 | ...    | 2       | 2     | 2        | 2     | 2     | —    | 2      | 2      | —        | 2      | —        | —       | —           | —             |
| shampoo ...                    | ...    | 2       | 2     | 2        | 2     | 1     | 2    | —      | 1      | —        | 1      | —        | —       | —           | —             |
| Veno's cough mixture ...       | ...    | 1       | 1     | 1        | 1     | 1     | 2    | 2      | 1      | 3        | 2      | —        | 3       | —           | —             |
| Wright's coal tar soap ...     | ...    | 4       | 4     | 2        | —     | —     | —    | —      | —      | —        | —      | —        | —       | —           | —             |

tesbury Avenue, London, W.C.2: Photoflux flashbulbs. In photographic magazines. PHILLIPS, SCOTT & TURNER CO., Surbiton, Surrey: Droxalin, In medical Press.

PYBUS, WESTHEAD & CO., LTD., 18 Sloane Street, London, S.W.1: Zestone vitamin tonic for children. In *Daily Record*, *Daily Mirror*, *Woman's Mirror*, *Woman and Home*, *TV Times*, *The Viewer* and *My Home*. SOUTHALLS (SALES), LTD., Rockville Road, Saltley, Birmingham, 8: Atrixo. In national Press. THERMOS, LTD., Ongar Road, Brentwood, Essex:

Thermos vacuum jugs. In national daily and Sunday newspapers and women's magazines. TONI CO., Trevor House, 100 Brompton Road, London, S.W.3: Focus. In mass-circulation daily newspapers and women's magazines.

VELVET CREPE PAPER CO., LTD., Charlton House, Kenton, Middlesex: Velvet toilet tissues. In *London Evening News*. VITAMINS, LTD., Manor Royal, Crawley, Sussex: Bemax stabilised wheat germ. In *Radio Times*, women's magazines and national and provincial Press.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

## Monday, October 28

GUILDFORD BRANCHES, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL UNION, Prince of Wales hotel, Guildford, at 7.30 p.m. Joint meeting.

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, The Hoe, Plymouth, at 7.30 p.m. Mr. A. Aldington (a member of Council) on "Problems of the Retail Pharmacist."

WALLASEY PHARMACISTS' ASSOCIATION and BRANCH, PHARMACEUTICAL SOCIETY, cane room, Royal Ferry hotel, Wallasey, at 8 p.m. Dr. K. R. Fell on "A Pharmacist in Nepal." WOKING BRANCH, PHARMACEUTICAL SOCIETY, assembly room (Wheatsheaf hotel, Chobham Road, Woking, at 8 p.m. Film evening.

## Tuesday, October 29

BOURNEMOUTH BRANCH, PHARMACEUTICAL SOCIETY, generating station, Poole. Dr. A. E. A. Werner on "Scientific Detection of Forgeries."

CARDIFF PHARMACISTS' ASSOCIATION and BRANCH, PHARMACEUTICAL SOCIETY, Royal hotel, Cardiff, at 7 p.m. Discussion on proposed increase in the retention fee. Mr. D. S. Moran (Ilford, Ltd.) on "Versatile Photography."

FOOD GROUP, SOCIETY OF CHEMICAL INDUSTRY, 14 Belgrave Square, London, S.W.1, at 6.15 p.m. Mr. G. H. Clement (Roche Products,

Ltd.) on "Carotenoids in Manufactured Foods."

LEICESTER AND LEICESTERSHIRE BRANCH, NATIONAL PHARMACEUTICAL UNION, Midland hotel, Princess Road, Leicester, at 7.30 p.m. Mr. H. G. Moss (a member of the Executive) on "The N.P.U. Pharmacy Modernisation Project." Film: "Prescription for Profit."

LEICESTER AND LEICESTERSHIRE BRANCH, PHARMACEUTICAL SOCIETY, room 104, College of Technology, Leicester, at 7.30 p.m. School of pharmacy prize giving.

LINCOLN BRANCH, PHARMACEUTICAL SOCIETY, Falcon hotel, Lincoln, at 7.30 p.m. Film show by G. D. Searle & Co., Ltd.

LIVERPOOL BRANCH, GUILD OF PUBLIC PHARMACISTS, Clifton hotel, Promenade, Southport, at 7 p.m. Annual dinner and dance.

WELLCOME TRUST, historical medical library, Wellcome Building, Euston Road, London, N.W.1, at 1 p.m. Dr. Edwin Clarke on "The History of Medicine: History of Leprosy, Syphilis, and Plague."

## Wednesday, October 30

BRADFORD BRANCH, PHARMACEUTICAL SOCIETY, Fountain Hall, Bradford, at 8 p.m. Supper dance.

GLASGOW AND WEST OF SCOTLAND BRANCH, PHARMACEUTICAL SOCIETY, masonic hall, Cadzow Street, Hamilton, at 7.45 p.m. Mr. R. S. Morrison (a member of Executive, Scottish Department) on "Is Retail Pharmacy in Danger of Eclipse?"

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, School of Pharmacy, University of London, Brunswick Square, London, W.C.1, at 7.30 p.m. Special general meeting to discuss the proposed increase in the personal retention fee.

## Thursday, October 31

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, Park hotel, Cardiff, at 7.30 p.m. Annual dinner and dance.

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, Berkeley hotel, Clifton, Bristol, at 7.30 p.m. Annual dinner and dance.

CHEMICAL SOCIETY, department of chemistry, The University, Bristol, at 6.30 p.m. Professor A. R. Battersby on "Opium."

MANCHESTER PHARMACEUTICAL ASSOCIATION, Engineers' club, Albert Square, Manchester, at 8 p.m. Open meeting and students' prize presentation. Guest speakers: Dr. F. Hartley (dean, school of pharmacy, University of London) and Professor K. Bullock (head, pharmacy department, Manchester University).

WELLCOME TRUST, historical medical library, Wellcome Building, Euston Road, London, N.W.1, at 1 p.m. Dr. Edwin Clarke on "The History of Medicine: Sea-scurvy, particularly in the Eighteenth Century."

## Friday, November 1

BOURNEMOUTH BRANCH, NATIONAL PHARMACEUTICAL UNION, South-western hotel, Central Station, Bournemouth, at 7.30 p.m. Mr. O. H. Gurney (A. C. Neilson Co., Ltd.) on "Market Research and its Application to Modern Business." (N.P.U. members only.)

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, No. 2 Bluecoat Chambers, School Lane, Liverpool, at 7.30 p.m. Address by Miss P. M. Farrell (almoner, Northern hospital).

## Saturday, November 2

HOUNSLAW BRANCH, PHARMACEUTICAL SOCIETY, Red Lion hotel, Hounslow, at 8 p.m. Dance.

## TRADE MARKS

APPLICATIONS ADVERTISED  
BEFORE REGISTRATION

## From the "Trade Marks Journal," October 9

For disinfectants and antiseptics, all for use with babies' feeding bottles and teats and all being in liquid form (5)

Device with word MILTON, B841,987, by Vick International, Ltd., London, W.1.

For preparations for killing weeds and destroying vermin, pesticides for use on plants, and insecticides, all containing sulphur or derivatives of sulphur (5)

THIOCRON, 844,276, by CIBA, Ltd., Basle, Switzerland.

For all goods (5)

TURKADIN, 845,025, SEPETS, 845,326, by Glaxo Laboratories, Ltd., Greenford, Middlesex, KYLDANE, 845,159, by L. & J. Robson, Charlbury, Oxfordshire, MGIT, B847,507, by Charles Edgar Naylor, Mobberley, Knutsford, Ches, DENDRA, 849,015, by Dendron Distributors, Ltd., Watford, Herts, NOBEFORM, 851,320, by A.B. Bofors, Bofors, Sweden, DIFRAREL, 851,574, by Laboratoires Chibret, S.A., Clermont-Ferrand (Puy-de-Dome), France, TILCOTIL, 852,021, by Roche Produits, Ltd., Welwyn Garden City, Herts, PARFAL, 852,074, by Lovens Kemiske Fabriks Handelsaktieselskab, Ballerup, nr, Copenhagen, Denmark, DRYSONEX, 852,192, STENDIN, 852,194, by Unilever, Ltd., Port Sunlight, Ches,

For pharmaceutical preparations and substances (5)

DURADIN, 845,605, by Smith Kline & French Laboratories, Ltd., Welwyn Garden City, Herts, NORTRIVIL, NORTRILEN, NORTRYPIN, 850,080-82, by H. Lundbeck & Co., A/S, Copenhagen, Denmark.

For medicinal and pharmaceutical preparations and substances, all for use in the relief of pain (5)

Device with word PAINULES, 846,826, by E. C. de Witt & Co., Ltd., Croydon, Surrey, For pharmaceutical preparations for treatment of the digestive tract (5)

DIACOLAN, 847,493, by Zyma, S.A., Nyon, Switzerland.

For pharmaceutical preparations and substances for human and veterinary use (5)

OPTICORTEN, 850,885, by CIBA, Ltd., Basle, Switzerland.

For deodorants, disinfectants and preparations for freshening and purifying the air (5)

INNOCENCE, 851,150, by Parnosa of London, Ltd., Stanmore, Middlesex.

For medicated paper tissues for use in applying and removing make-up (5) and for non-medicated paper tissues for use in applying and removing make-up (16)

BOUCHETTES, B844,203-04, by Dalam Products, Ltd., Billingshurst, Sussex.

For photographic apparatus and instruments and parts (9)

ILFOPRINT, 849,199, by Ilford, Ltd., Ilford, Essex.

For cinematographic and photographic cameras and parts and fittings, etc. (9)

SHINON, 850,116, by Apparatus & Instrument Co., Ltd., Hounslow, Middlesex.

For electric lamps for medical and curative purposes (10)

PRINCESS, 850,963, by H. Bodtcher-Hansen, A/S, Copenhagen K, Denmark.

For electric blankets (10)

PRESIDENT, 851,194, by Thomas French & Sons, Ltd., Manchester 15.

For tooth-brushes (21)

SHIP, 845,438, by M. & C. Schiffer, Neustadt/Wied, Germany.

From the "Trade Marks Journal," October 16

For detergents (not for use in manufacturing or industrial processes); soaps and washing preparations and substances (3)

VIGOR, B842,071, by Hazelhurst & Sons, Ltd., London, E.C.4.

For all goods (3)

TOGETHERNESS, B846,455, by J. C. & J. Field, Ltd., London, W.1.

For non-medicated toilet preparations for the finger-nails (3)

DINALON, 849,095, by J. Grossman & Son, Ltd., London, S.W.18.

For non-medicated toilet preparations, cosmetic preparations, and sachets for use in waving the hair (3)

FENT, 842,813, by Indola, N.V., Rijswijk, South Holland, Netherlands.

For eye cosmetics (3)

PINAUD CILIA, 845,659, by Pinaud, Ltd., London, E.C.1.

For common soap, detergents (not for use in industrial or manufacturing processes), and cleaning, polishing, scouring and abrasive preparations (3)

RAS, 847,049, by Unilever, Ltd., Port Sunlight, Ches,

For anaesthetics (5)

CARBOCAIN, 832,101, by A.B. Bofors, Bofors, Sweden.

For pharmaceutical preparations and substances (5)

NEO-VIFORTAN, 842,991, by Lafag, S.A., Geneva, Switzerland, FLUGEN-E, 851,468, by Beecham Research Laboratories, Ltd., Brentford, Middlesex.

For date syrup prepared for pharmaceutical purposes (5)

Device with letters D.S.T.C., B844,340, by Date Syrup Trading Concern, Redhill, Surrey.

For pharmaceutical tablets for human use (5)

McCLUNG VI-TABS, B844,951, by McClung Clemens, Ltd., Toronto, 15, Ontario, Canada.

For pharmaceutical preparations for human use in the treatment or prevention of foot ailments (5)

TRED, 845,843, by Priory Laboratories, Ltd., West Drayton, Middlesex.

For progestational agents, being pharmaceutical preparations for human use (5)

PROVERA, 846,056, by Upjohn, Ltd., Crawley, Sussex.

For pharmaceutical preparations (5)

ERYTHROMID, 846,245, by Abbott Laboratories, North Chicago, Illinois, U.S.A.

For pharmaceutical preparations and substances in capsule form (5)

OTACAPS, B846,501, by Crookes Laboratories, Ltd., London, N.W.10.

## PATENTS

## COMPLETE SPECIFICATIONS ACCEPTED

## From the "Official Journal (Patents)," October 9

Vitamin A aldehyde complex, Eastman Kodak Co., 941,952.

Phenylbenzoxazoles and process for their preparation, CIBA, Ltd., 941,990.

Bis-triazinylamino-stilbene disulphonic acids and process for their preparation, CIBA, Ltd., 941,993.

Pharmaceutical anti-fungal compositions comprising an halogenated phenol, Dumex, Ltd., 942,091.

Method of obtaining galanthamine hydrobromide, Chimiko-Pharmazevtischen Zavod, 942,200.

Injectable solutions comprising 1-ethyl-1-methyl-propanol carbonate, G. Aneel, 942,372.

Pharmaceutical compositions containing quinoline compounds, Norwiche Pharmacal Co., 942,524.

Derivatives of heparin, processes for their production, and pharmaceutical compositions containing them, Roussel-Uclaf, 942,526.

Ethers of sugars, Monsanto Chemical Co., 941,950.

Sanitising compositions, H. A. H. Crowther, 942,058.

Fungicidal compositions containing cycloheximide, Upjohn Co., 942,066.

Organotin derivatives, Stauffer Chemical Co., 942,115.

Fumigants, Dow Chemical Co., 942,348.

Microbial insecticide and method of producing same, Institut Pasteur, 942,462.

1-(4-chloronaphthyl)-N-methyl carbamate and insecticidal compositions containing same, Union Carbide Corporation, 942,515.

Sterilisation of sutures, American Cyanamid Co., 942,374.

Dressings for wounds, Lohmann, K.G., 942,193.

Article and the preparation thereof, Ethicon, Inc., 942,226.

Antiseptic film and method and apparatus for producing same, Parachem Corporation, 942,305.

Purification of demethylchlortetracycline, American Cyanamid Co., 942,074.

Wound-dressings, Lohmann, K.G., 942,466.

Process for the production of 4-iodo-thymol, Chugai Seiyaku, K.K., 941,955.

Aldehyde production, Diamond Alkali Co., 941,996.

Method of hardening gelatine, CIBA, Ltd., 941,998.

Production of 1-menthol, A. Boake, Roberts & Co., Ltd., 942,054.

Process for the manufacture of phosphorus oxy-acid derivatives, Shell Internationale Research Maatschappij, N.V., 942,072.

Method of preparing organic sulphates or sulphonates, Esso Research & Engineering Co., 942,130.

Benzhydryl ethers, Sandoz, Ltd., 942,152.

Method of preparing compounds containing groups of  $=N-C-C-N=$ , Astra Apotekarnes Kemiska Fabriker, A.B., 942,195.

Tertiary N-bromobenzyl-N-butylamines and their preparation, Wellcome Foundation, Ltd., 942,309.

Amino acid salts of detergent sulphates and sulphonates, H. S. Mannheimer and J. J. McCabe, 942,317.

Light-sensitive material for use in photomechanical reproduction, Kalle, A.G., 942,404.

Preparation of adipic and alkyl adipic acids, California Research Corporation, 942,415.

Process for the manufacture of p-hydroxybenzoic acid, Inventa, A.G. für Forschung und Patentverwertung, 942,418.

Automatic diaphragm-aperture control means, Friedrich Deckel Compurwerk, O.H.G., 942,274.

Holders for photographic material for cameras, N. Linhof Karpf, K.G., Präzisions-Kamera-Werke, 942,357.

Photographic cameras, Kodak, Ltd., 942,477.

Ever-ready cases for photographic cameras, Rollei-Werke Franke & Heidecke, 942,478.

Light sensitive transfer material, Kalle, A.G., 941,962.

Development of photographic silver halide layers, Kedak, Ltd., 942,034.

Production of photographic negatives, E. I. du Pont de Nemours & Co., 942,075.

Polymers for use in photography, Kodak, Ltd., 942,188.

Production of multicolour photographic pictures, Technicolor Corporation of America, 942,237.

British patent specifications relating to the above will be obtainable (price 4s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2, from November 20.

## CONTEMPORARY THEMES

## Subjects of contributions in current medical and technical periodicals.

16-METHYLENE-PREDNISOLONE: Adrenal suppression shown by gas-chromatography, *Lancet*, October 19.

THIACETAZONE in tuberculosis, *Lancet*, October 19.

ANTIBIOTICS REVISITED: Problems and prospects after two decades, *Brit. med. J.*, October 19.

FOUR PHENOXYPENICILLINS: A comparison of, *Brit. med. J.*, October 19.

AMPICILLIN in treatment of certain Gram-negative bacterial infections, *Brit. med. J.*, October 19.

INDOMETHACIN: A new non-steroid anti-inflammatory agent, *Brit. med. J.*, October 19.

TETRACYCLINES: Hypoplasia and staining of teeth after, *J. Amer. med. Ass.*, September 28.

FLUOROURACIL, given in glucose, Decreased toxicity of, *J. Amer. med. Ass.*, September 28.

BUFFRED GLUTARALDEHYDE — A new chemical sterilising solution, *Amer. J. hosp. Pharm.*, September.

DRUG EVALUATION: An approach to, in hospital pharmacy, *Amer. J. hosp. Pharm.*, September.

A POTASSIUM-ION REPLACEMENT ELIXIR: Formulation and preparation of, *Amer. J. hosp. Pharm.*, September.

QUATERNISED SYMPATHOMIMETIC AMINES, *Nature*, October 19.

RARE EARTHS: Skin reaction to intradermal injection of, *Nature*, October 19.

IBUFENAC: A new antirheumatic drug, Some biological properties of, *Nature*, October 19.

SURAMIN COMPLEXES: Prophylactic activity of, in "sura" (*Trypanosoma evansi*), *Nature*, October 19.

# Dandruff?



# Selsun

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(Selenium Sulphide, Abbott)

**For Effective Control  
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And Common Dandruff**

Pleasant, simple-to-use Selsun brings quick, welcome relief to dandruff sufferers. Selsun stops scaling in 81-87% of seborrhoeic dermatitis, 92-95% of common dandruff cases. Itching, burning symptoms are controlled with the first few applications. Then each Selsun application keeps the scalp healthy for as long as four weeks. Widely prescribed, Selsun is supplied in 1, 2 and 4 fl. ozs.



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BY **DUNLOP**

With the Dunlop 'Flag' on display you're sure of rapid sales. It's a strong moulded bottle made to last—that's why it's always in demand. With smooth, rounded shoulders, in Pastel Blue or Red, it's the best 7/6 worth on the market. There are five other moulded bottles in a range of colours at prices from 6/3 to 11/6 retail. And all the 15 Dunlop bottle designs are sure sellers. Backed by impressive advertising they will be a constant source of business for you this winter.

DE-LUXE BOTTLES



The 'Cosimax' and 'Deep Sleep', the only bottles that take boiling water, have luxurious velvety covers and flap-over tops. In gay boxes the 'Deep Sleep' (Primrose, Cherry Red) sells at 27/6. The 'Cosimax' an extra large bottle (Fawn, Pastel Blue, Pastel Pink) sells at 32/6.

MOULDED COVERED BOTTLES



The 'Georgian' and 'Quiltie' are covered in a rich coat of brushed fabric. The 'Quiltie' is a streamlined bottle (Red or Blue), and sells at 11/6. The 'Georgian' in an oak-leaf pattern (Blue, Red and Lavender) also retails at 11/6.

CHILDREN'S COVERED BOTTLES



Five gay bottles make up the children's range. All covered in brushed fabric—the 'Motif' bottles are embroidered with a Doggy, Bunny or Duck, retail at 12/6. The 'Wigwam' with a bright Red Indian Village design on Blue, Pink or Yellow, and the 'Eskimo/Bear' design on Red background both sell at 9/6.

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CPH/SHWB/2

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### BEAUTY SET



## THE MOST VERSATILE BEAUTY-AID YOU'LL EVER SELL

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- Body massager
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- Facial massager
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All three automatic  
battery-operated  
Designed by Swiss  
precision engineer  
Absolutely safe  
All attractively  
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### AUTOMATIC ROTARY TOOTHBRUSH



SALE IN EVERY FAMILY!  
THE ONLY TOOTHBRUSH  
WHICH AUTOMATICALLY  
BRUSHES TEETH CORRECTLY

... by toothbrush which  
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the toothbrush.

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which moves upwards  
and downwards at the flick  
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Powered by a 1.5 volt battery  
it is portable, completely  
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available in 4 choice  
of colour  
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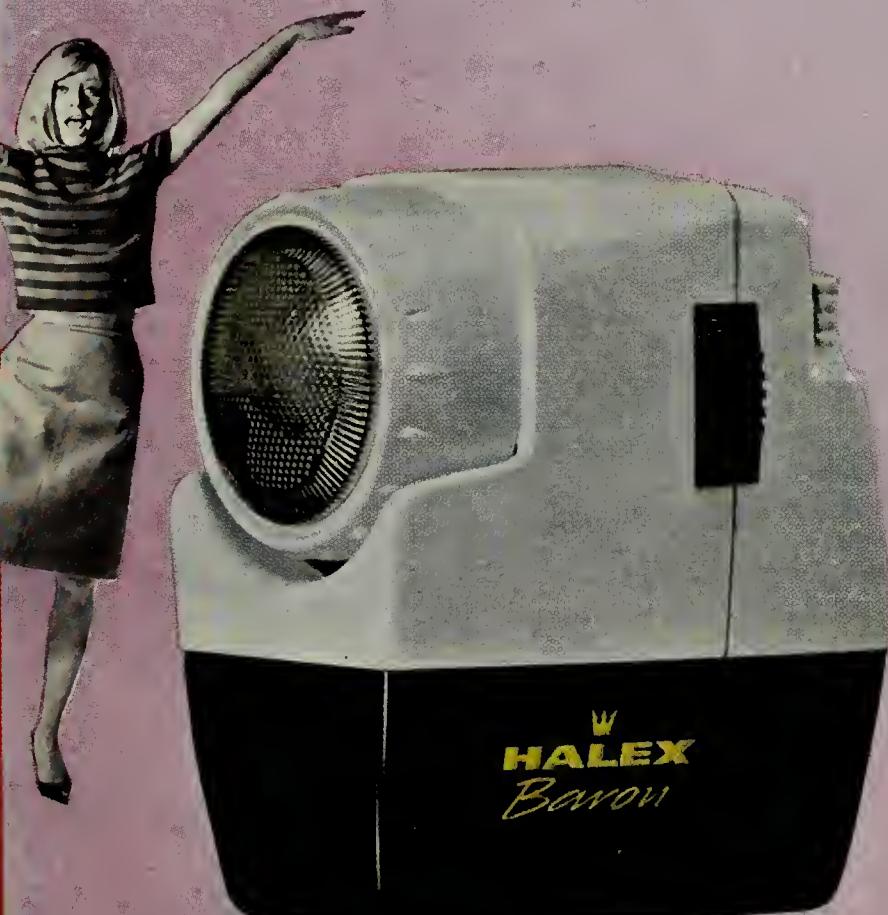
The Halex Dental is the ideal  
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more, on top of your  
money, you'll do a  
good post-sales trade  
and replacement  
heads.

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- Easy-grip shape
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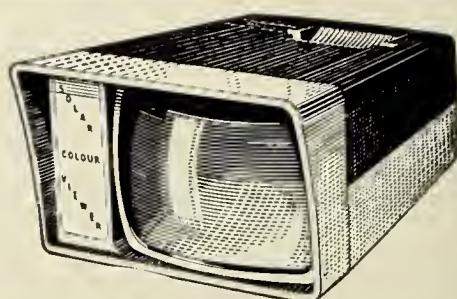
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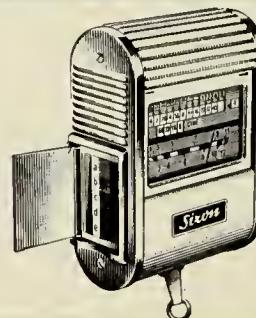
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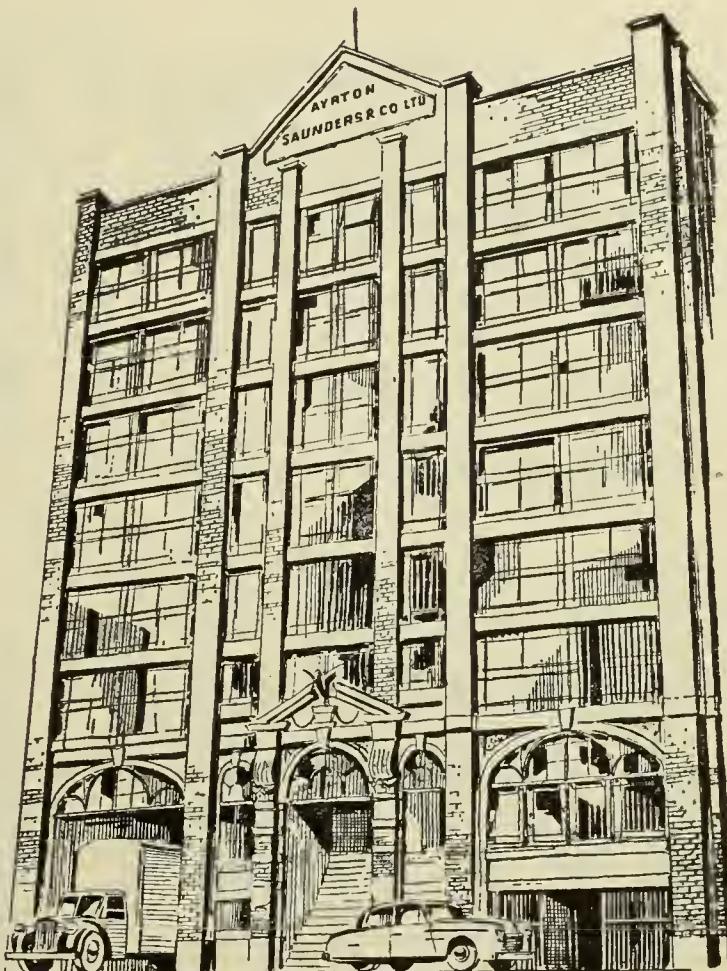
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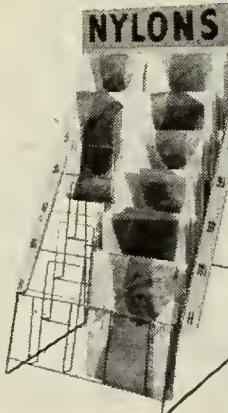
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Double-fronted shop with modern two-bedroom flat (rental £550 p.a. exclusive of rates).

Recent residents' poll by this Association shows 86 per cent, support for pharmacy.

More details from Secretary, Goldstone Valley Residents' Association, 10 Cobton Drive, Hove, 4, Sussex. C 5606

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Full time Dispensing Assistant (female) wanted, January 1964. Small modern hospital for children and staff of Dr. Barnardo's Homes. National Health List. Whitley Council scale with authorised supplements. Apply: Chief Medical Officer, Dr. Barnardo's Homes, Stepney Causeway, London, E.1. Tel.: STE. 3400. C 8617

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**MEDWAY AND GRAVESEND HOSPITAL MANAGEMENT COMMITTEE, ALL SAINT'S HOSPITAL, CHATHAM, KENT****Deputy Chief Pharmacist (Category IV)**

required at the above hospital, which also serves a sub-group of five other hospitals. Salary £855—£1,165 per annum. The Pharmaceutical department will be transferred in due course to the Medway Hospital, Gillingham, which is being developed as the main district hospital for the area. Further details of the appointment may be obtained from the Chief Pharmacist at All Saint's Hospital. Applications should be addressed to the Hospital Secretary, stating age, qualifications, experience and names of two referees. C 8608

**MEDWAY AND GRAVESEND HOSPITAL MANAGEMENT COMMITTEE, GRAVESEND & NORTH KENT HOSPITAL, GRAVESEND****Dispensing Assistant**

Applications are invited for the post of Dispensing Assistant at the above general hospital. Salary according to age and experience on scale rising to £580 p.a. Candidates should preferably hold the Certificate of the Society of Apothecaries or an equivalent qualification for which an additional allowance of £50 per annum is payable. Please apply to Hospital Secretary, giving details of age, qualifications, experience and the names of two referees. C 8611

**HARROGATE AND RIPON HOSPITAL MANAGEMENT COMMITTEE****Chief Pharmacist**

Applications are invited for the post of Chief Pharmacist to the No. 1 Sub-group which includes Harrogate General Hospital (253 beds), three smaller hospitals and an Eye Clinic. The post is graded for salary purposes as Category III and the current scale is £1,020 x £40 x £45—£1,355 p.a. Applications giving details of age, qualifications and experience, together with the names and addresses of two referees, should be submitted within 14 days to the Group Secretary, Hereford Lodge, Cornwall Road, Harrogate. C 8609

**KING'S COLLEGE HOSPITAL, DENMARK HILL, S.E.5****Pharmacist**

Applications are invited for the post of whole or part-time Pharmacist at this teaching hospital. The post offers varied and interesting experience of all branches of hospital pharmacy including manufacturing and the production of a wide range of sterile preparations. A recently qualified or retail pharmacist would be acceptable. Salary on scale £750—£1,040 including London Weighting, depending on qualifications and experience. Further information may be obtained from the Chief Pharmacist, Mr. Davenport, telephone BRIxtion 6222. Applications stating age, qualifications, experience and the names of two referees should be sent to the House Governor at the above address. C 8614

**ST. ALBANS CITY HOSPITAL NORMANDY ROAD, ST. ALBANS, HERTS (403 beds)****Senior Pharmacist**

Applications are invited for the above post at this general hospital within easy reach of Central London. Whitley Council salary and conditions of service. Applications stating age, qualifications and experience, together with the names of two referees, to the Chief Pharmacist.

**Locum Pharmacist** required immediately pending this appointment. C 8518

**SOUTHMEAD HOSPITAL, BRISTOL (670 beds)****Pharmacist**

required at Southmead Hospital. This post offers wide experience in modernised department. Applications stating age, qualifications and experience to be sent to the Group Secretary. C 8595

## Appointments—Continued

WALSALL HOSPITAL  
MANAGEMENT COMMITTEE

## Chief Pharmacist (Category III)

required at the General (Sister Dora) Hospital early in 1964. Applications, together with names of two referees, to Group Secretary, General (Sister Dora) Hospital, Walsall, Staffs, not later than 15th November. C 5618

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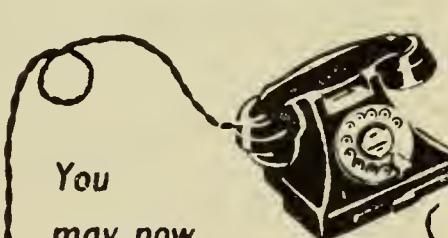
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| <b>Bond Street</b> (1355 (Yardley)            | greenhouse malathion                                    | 56                       | 0        | —   | 7   | 0   |
| Spray Mist de luxe ..                         | ant and woodlice liquid                                 | 4 oz                     | 24       | 0   | 3   | 0   |
| <b>Boy Blue</b> (1114 SLL)                    | 1 pt  | 40                       | 0        | —   | 5   | 0   |
| shampoo .. sachet                             | 1 pt  | 64                       | 0        | —   | 8   | 0   |
| <b>Delete Brestol</b> (307 C&G) entire entry  | powder ..   | 10                       | 0        | —   | 1   | 3   |
| <b>Brevedil E</b> (971 PSMB)                  | wasp nest destroyer                                     | 2 nests                  | 20       | 0   | 2   | 6   |
| powder, ampoules                              | 6 nests   | 12                       | 0        | —   | 1   | 6   |
| 150 mgm .. 10                                 | 20 nests  | 24                       | 0        | —   | 3   | 0   |
| multi-dose container                          | 40 nests  | 60                       | 0        | —   | 7   | 6   |
| 750 mgm ..                                    | weed killer "24D"                                       | 100                      | 0        | —   | 12  | 6   |
| "M" ampoules 67 mgm 10                        | 4 oz  | 24                       | 0        | —   | 3   | 0   |
| multi-dose container                          | <b>Coty</b> (301 Coty)                                  | —                        | —        | —   | —   | —   |
| 335 mgm ..                                    | bath cubes ..   | 073                      | 29       | 6   | 7   | 2   |
| ampoules 2 mils .. 10                         | bronchial syrup   | 4 oz                     | 14       | 3   | 2   | 3   |
| multi-dose container                          | 8 oz  | 21                       | 9        | 5   | 3   | 3   |
| 10 mils ..                                    | <b>Crinix</b> (1155 S&N)                                | —                        | —        | —   | —   | —   |
| <b>Brocillin</b> (1393 BRL) tablets           | conforming bandage                                      | —                        | —        | —   | —   | —   |
| 125 mgm 24                                    | 4 yds 2 in ..   | 9                        | 0        | —   | 1   | 2   |
| 125 mgm 20                                    | 3 in ..   | 11                       | 7        | —   | 1   | 6   |
| <b>Delete</b> 250 mgm 24                      | 4 in ..   | 13                       | 5        | —   | 1   | 9   |
| <b>Insert</b> 250 mgm 20                      | 6 in ..   | 18                       | 9        | —   | 2   | 3   |
| <b>Bronchagen</b> (113 Bencard)               | <b>Crookes</b> (324 Crookes)                            | —                        | —        | —   | —   | —   |
| vials .. 3 x 10 mils                          | ACTH intramuscular vial                                 | 10 units                 | 27       | 0   | 3   | 0   |
| <b>Bronchilator</b> (97 Bayer)                | or subcutaneous   | 25 units                 | 42       | 0   | 4   | 8   |
| measured-dose nebuliser                       | 50 units  | 81                       | 0        | —   | 9   | 0   |
| with vial .. 10 mils                          | intravenous vial  | 30 units                 | 30       | 0   | 3   | 4   |
| <b>Brontina</b> (221 Camden)                  | 75 units  | 72                       | 0        | —   | 8   | 0   |
| ampoules 2 mils .. 12                         | carbon tetrachloride injection                          | vet. vial                | 200      | 0   | 10  | 6   |
| tablets 1 mgm .. 100                          | 1 gm ..   | 25                       | 33       | 4ea | 50  | 0   |
| <b>Brovon</b> (859 Moore)                     | 1 gm ..   | 25                       | 46       | 8ea | 70  | 0   |
| pressurised with adaptor                      | <b>Cyclonal</b> (971 PSMB) sodium                       | —                        | —        | —   | —   | —   |
| <b>Delete</b> refill                          | ampoules 0.5 gm ..                                      | 25                       | 33       | 4ea | 50  | 0   |
| pressurised complete ..                       | 1 gm ..   | 25                       | 46       | 8ea | 70  | 0   |
| refill ..                                     | <b>Davenol</b> (1352 Wyeth)                             | —                        | —        | —   | —   | —   |
| adaptor ..                                    | linctus ..  | 4 fl oz                  | 41       | 9   | 10  | 6   |
| <b>Broxil</b> (1393 BRL) tablets              | 40 fl oz  | 360                      | 0        | 90  | 50  | 0   |
| 125 mgm 24                                    | <b>Deakin's</b> (360 D&H)                               | —                        | —        | —   | —   | —   |
| 125 mgm 20                                    | cough and cold healer                                   | —                        | —        | —   | —   | —   |
| <b>Delete</b> 250 mgm 24                      | inflammation remedy                                     | —                        | —        | —   | —   | —   |
| <b>Insert</b> 250 mgm 20                      | <b>Depo-Provera</b> (1263 Upjohn)                       | ampoules 50 mgm/ml 1 mil | 12       | 5ea | —   | —   |
| <b>Broxodent</b> (1176 Squibb)                | 5 mils  | 55                       | 0ea      | —   | —   | —   |
| automatic toothbrush                          | <b>Delete</b> <b>Dermalac</b> (938 PD)                  | —                        | —        | —   | —   | —   |
| <b>Brylcreem</b> (303 County)                 | <b>De Witt's</b> (372 De Witt)                          | kidney & bladder pills   | 17       | 4   | 4   | 3   |
| dispenser ..                                  | —   | 35                       | 6        | 8   | 8   | 4   |
| <b>Caapi</b> (878 Napp)                       | —   | 56                       | 3        | 13  | 9   | 7   |
| all sizes ..                                  | <b>Insert</b> <b>Insert</b> piperazine syrup            | 20 oz                    | —        | —   | —   | —   |
| <b>Calsitone</b> (1166 Southon)               | Dijex (147 Boots)                                       | 16 0ea                   | —        | —   | —   | —   |
| tablets .. .. 30                              | liquid ..   | dp 2 litres              | 13       | 0ea | —   | 19  |
| <b>Calypotol</b> (1154 S&N)                   | <b>Dimol</b> (376 Dimol)                                | (distributors 49 AF)     | —        | —   | —   | —   |
| capsules ..                                   | tablets ..  | 48                       | 28       | 6   | 7   | 1   |
| dp. 100 ..                                    | 100   | 43                       | 0        | 10  | 9   | 6   |
| <b>Canadian</b> (288 Commercial)              | syrup ..  | 16 oz                    | 72       | 0   | 18  | 0   |
| healing oil .. 2 oz                           | <b>Dimol A</b> (376 Dlmol)                              | (distributors 49 AF)     | —        | —   | —   | —   |
| <b>Delete</b> <b>Canasta</b> (Jacques Fath)   | tablets ..  | 100                      | 43       | 0   | 10  | 9   |
| (distributors 331 C of C) all entries         | vaccine ampoules 1 mil single                           | 7 6ea                    | —        | —   | 10  | 0   |
| <b>Capsolin</b> (938 PD)                      | <b>Dorant</b> (718 LAB)                                 | hair tonic ..            | 52       | 6   | 13  | 2   |
| tube ..                                       | Colour Drama ..   | —                        | 58       | 0   | 14  | 6   |
| <b>Cascade</b> (818 M&B)                      | soap ..   | 4 oz                     | 32       | 0   | 8   | 0   |
| photographic wetting                          | <b>Drenison</b> with neomycin (vet) (1477 Elanco)       | —                        | —        | —   | —   | —   |
| agent .. 500 mils                             | 5 gm ..   | 51                       | 0        | —   | 6   | 4   |
| <b>Chlormytol</b> (938 PD)                    | 15 gm ..  | 129                      | 0        | —   | 16  | 1   |
| ointment .. 5 gm                              | <b>Drianaps</b> (1487 Besso)                            | napkin liners ..         | (2)      | 40  | 0   | —   |
| 15 gm   | —   | —                        | —        | —   | 4   | 11  |
| <b>Chloromycetin</b> (938 PD)                 | <b>Drummer</b> (406 WE)                                 | washing up liquid ..     | —        | 22  | 6   | —   |
| Kapsels 0.25 gm ..                            | —   | —                        | —        | —   | 2   | 6   |
| 100 ..  | <b>Dubois</b> (160 Bliss)                               | cologne spray ..         | 65       | 3   | 16  | 4   |
| 500 ..  | —   | 6                        | 65       | 3   | 16  | 4   |
| 1000 ..                                       | lavender spray ..                                       | —                        | 65       | 3   | 16  | 4   |
| 50 mgm (vet) .. 25                            | perfume spray ..  | —                        | —        | —   | —   | —   |
| 100 ..  | Chicana ..  | 45                       | 0        | 11  | 3   | 6   |
| cream .. .. tube                              | Chiquette ..  | 171                      | 3        | 42  | 10  | 24  |
| .. .. jar                                     | Chiquita ..   | 109                      | 0        | 27  | 3   | 15  |
| ear drops .. 5 mils                           | cartridge spray ..                                      | 171                      | 3        | 42  | 10  | 24  |
| 100 mils ..                                   | —   | 45                       | 0        | 11  | 3   | 6   |
| endotonic compound ..                         | —   | —                        | —        | —   | —   | —   |
| hydrocortisone ophthal-                       | <b>Durophet</b> (1061 Riker)                            | capsules 7.5 mgm ..      | 30       | 40  | 0   | —   |
| mic drops .. 5 mils                           | —   | 300                      | 260      | 0   | 32  | 6   |
| ointment .. .. tube                           | 12.5 mgm ..   | 30                       | 44       | 0   | 5   | 6   |
| intramuscular .. 2 gm                         | —   | 300                      | 304      | 0   | 38  | 10  |
| intravenous 0.5 gm .. 6                       | 20 mgm ..   | 30                       | 52       | 0   | 6   | 6   |
| ophthalmic 25 mgm .. vial                     | —   | 300                      | 376      | 0   | 47  | 0   |
| ointment Aplicap 1% .. 50                     | <b>Dylon</b> (816 Mayborn)                              | —                        | —        | —   | —   | —   |
| 250 ..  | dyes carpet ..  | —                        | —        | —   | 8   | 6   |
| palmitate suspension 60 mils ..               | spot dry cleaner ..                                     | —                        | —        | —   | 2   | 6   |
| pure .. 5 gm ..                               | <b>Dyspastol</b> (878 Napp)                             | —                        | —        | —   | —   | —   |
| 25 gm ..                                      | —   | —                        | —        | —   | —   | —   |
| 100 gm ..                                     | <b>Insert</b> all sizes                                 | —                        | —        | —   | —   | —   |
| succinate .. 250 mgm ..                       | <b>Edixamat</b> (980 Photopl)                           | camera Kadett ..         | E1       | 504 | 6ea | 122 |
| 1 gm ..                                       | case ..   | E217                     | 47       | 4ea | 11  | 7ea |
| suppositories .. 6 ..                         | <b>Delete</b> elastic adhesive bandage 2½ in and 3 in.. | —                        | —        | —   | 879 | 8   |
| topical 5% .. 15 mils                         | <b>Eldon</b> (561 HF)                                   | vaporiser ..             | 48       | 0   | —   | 5   |
| aerosol (vet) .. tln                          | Elorine chloride (413 Lilly) Pulvules                   | —                        | —        | —   | 9   | 9   |
| colourless (vet) .. tln                       | <b>Embacoid</b> (818 M&B)                               | film cement ..           | 500 mils | 108 | 0   | —   |
| <b>Chlorstreptol</b> (938 PD)                 | —   | —                        | —        | —   | 13  | 6   |
| Kapsels .. 12 ..                              | perfume ..  | 110-40                   | 115      | 3   | 28  | 1   |
| 100 ..  | —   | 121-40                   | 164      | 6   | 40  | 1   |
| suspension .. 60 mils                         | —   | 141-40                   | 296      | 3   | 72  | 3   |
| <b>Delete</b> <b>Cholphytene</b> (115 Bengue) | —   | 151-40                   | 493      | 6   | 120 | 3   |
| Chymarcort (61 APC)                           | —   | 171-40                   | 845      | 6   | 206 | 0   |
| ointment .. ½ oz ..                           | —   | —                        | —        | —   | 128 | 6   |
| <b>Colomycin</b> (972 Pharmax)                | <b>Delete</b> existing packs                            | —                        | —        | —   | —   | —   |
| syrup, powder for 80 mils                     | <b>En-O-Ge</b> (1166 Southon)                           | —                        | —        | —   | —   | —   |
| <b>Insert</b> <b>Corry's</b> (1472 Corry)     | (distributors 1479 Walls)                               | —                        | —        | —   | —   | —   |
| acrosols ..                                   | —   | —                        | —        | —   | —   | —   |
| ant killer .. ..                              | —   | —                        | —        | —   | —   | —   |
| fly spray .. ..                               | —   | —                        | —        | —   | —   | —   |
| garden and green-                             | —   | —                        | —        | —   | —   | —   |
| house .. ..                                   | —   | —                        | —        | —   | —   | —   |

|   |          |         |             |             |       |      |        |   |
|---|----------|---------|-------------|-------------|-------|------|--------|---|
| <b>Entair</b> (179 BDH)<br>capsules ..                                      | 30       | 11      | 2ea         | 2           | 9½ea  | 19   | 6½     | <b>Delete</b> GH (234 Cartwright) entire entry          |
| <b>Enterisorb</b> (1352 Wyeth)<br>tablets (vet) ..                          | 50       | 168     | 9           | —           | 18    | 9    | TS     | <b>Gillette</b> (514 Gillette)<br>razors                |
| <b>Equagesic</b> (1352 Wyeth)<br>tablets ..                                 | 10       | 27      | 3           | —           | 3     | 1    | ts4B   | adjustable Mark II ..                                   |
|   | 100      | 240     | 0           | —           | 26    | 8    | ts4B   | Aristocrat ..   |
| <b>Equizole V</b> (837 MSD)<br>powder (vet) ..                              | 30 gm    | 85      | 6           | —           | 9     | 6    | VPO    | <b>Goddard</b> (522 Goddard)<br>Long-Term silver polish |
| <b>Esobactulin</b> (1166 Southon)<br>(distributor 1479 Wallis)              |          |         |             |             | 3½ oz | 45   | 0      | 5 0   |
| <b>Esoban</b> (1166 Southon)<br>(distributors 1479 Wallis)                  |          |         |             |             | 7½ oz | 85   | 6      | 9 6   |
| <b>Eso-Col</b> (1166 Southon)<br>(distributors 1479 Wallis)                 | 25       | 4       | 6           | 4           | 3     | 11   |        | 1 qt.   |
| <b>Eso-Dex</b> (1166 Southon)<br>(distributors 1479 Wallis)                 |          |         |             |             | 31    | 10ea |        | 31 10ea   |
| <b>Estee Lauder</b> (425 ELC)<br>daylight make-up                           |          |         |             |             |       |      |        | 42 6  |
| eye liner ..  | 8        | 4ea     | 2           | 1ea         | 14    | 6    |        |   |
| eye liner brush ..  | 7        | 8ea     | 1           | 1ea         | 13    | 6    |        |   |
| foundation film ..  | 14       | 0ea     | 3           | 6ea         | 24    | 6    |        |   |
| lipstick ..   | 10       | 0ea     | 2           | 6ea         | 17    | 6    |        |   |
| refill ..   | 7        | 4ea     | 1           | 10ea        | 12    | 6    |        |   |
| mascara compact ..  | 17       | 0ea     | 4           | 3ea         | 29    | 6    |        |   |
| refill ..   | 8        | 8ea     | 2           | 2ea         | 15    | 6    |        |   |
| powder film ..  | 14       | 0ea     | 3           | 6ea         | 24    | 6    |        |   |
| pressed compact ..  | 10       | 0ea     | 2           | 6ea         | 17    | 6    |        |   |
| refill ..   | 5        | 4ea     | 1           | 4ea         | 9     | 6    |        |   |
| shadow-light creme ..   | 10       | 0ea     | 2           | 6ea         | 17    | 6    |        |   |
| stick ..  | 10       | 0ea     | 2           | 6ea         | 17    | 6    |        |   |
| youth blnd over-glow ..   | 14       | 0ea     | 3           | 6ea         | 24    | 6    |        |   |
| <b>Insert</b> <b>Eucarbon</b> (1484 PCPL)<br>tablets ..                     | 40       | 26      | 1           | 6           | 6     | 3    | 10     |   |
|   | 100      | 50      | 0           | 12          | 6     | 7    | 3      |   |
| <b>Eugene</b> (431 Eugene)<br>colour tones ..                               | 22       | 3       | 5           | 7           | 3     | 3    |        |   |
| <b>Eutonyl</b> (2 Abbott)<br>Filmtabs 25 mgm ..                             | 100      | 52      | 10ea        | 13          | 2½ea  | 92   | 5½ts4B | <b>Insert</b> <b>Hibitane</b> (849 ICI)                 |
| 10 mgm ..   | 100      | 26      | 0ea         | 6           | 6ea   | 45   | 6 ts4B | lozenges ..   |
| <b>Insert</b> <b>Euvitol</b> (34 A&H)<br>all packs ..                       |          |         |             |             |       |      |        | 12  |
| <b>Ever Ready</b> (438 ER)<br>razor blades                                  |          |         |             |             |       |      |        | lozenges ..   |
| Corrux premium edge<br>(5) ..   | 19       | 2       | 4           | 10          | 2     | 9    |        | 20  |
| stropping machine with  |          |         | (60 blades) | (60 blades) |       |      |        | 8   |
| strop ..  | 87       | 6       | 21          | 11          | 12    | 6    |        | 36  |
| strop ..  | 34       | 4       | 8           | 7           | 5     | 0    |        | 62  |
| <b>Delete</b> <b>F99</b> (857 IL)   |          |         |             |             |       |      |        | 17  |
| <b>Insert</b> <b>F99</b> (1485 Diva)  |          |         |             |             |       |      |        | 6   |
| <b>Fabulo</b> (554 Haetam)<br>bouffant curlers ..                           | 10       | 8       | 2           | 8           | 3     | 4    |        | 168   |
|   | (6 doz)  | (6 doz) |             |             |       |      |        | 28  |
| <b>Delete</b> <b>Faint Blush</b> (60 Arden) ..                              | ..       | ..      | ..          | ..          | ..    | ..   | ts4B   | 10  |
| <b>Fath de Fath</b> (Jacques Fath)<br>(distributors 331 C of C) all entries |          |         |             |             |       |      |        | 10  |
| <b>Delete</b> <b>Femilan</b> (37 Allied)                                    |          |         |             |             |       |      |        | 513   |
| <b>Fentazin</b> (34 A&H)<br>duolets ..                                      | 50       | 8       | 0ea         | —           | 12    | 0    | ts4B   | <b>Insert</b> <b>Hololite</b> (160 Bliss)               |
|   | 250      | 33      | 6ea         | —           | 50    | 3    | ts4B   | hair lacquer aerosol ..                                 |
| syrup ..  | 5 oz     | 4       | 6ea         | —           | 6     | 9    | ts4B   | 65 0  |
|   | 2 litres | 50      | 4ea         | —           | 75    | 6    | ts4B   | 16 3  |
| <b>Ferromyn</b> (218 Calmic)<br>elixir ..                                   | 4 oz     | 44      | 0           | —           | 5     | 6    |        | 9 6   |
|   | 20 oz    | 15      | 6ea         | —           |       |      |        | 15 0  |
|   | 40 oz    | 30      | 0ea         | —           |       |      |        | 58 1½ts4B   |
|   | 80 oz    | 58      | 4ea         | —           |       |      |        |   |
| <b>elixir "B"</b> ..  | 4 oz     | 48      | 0           | —           | 6     | 0    |        |   |
|   | 20 oz    | 17      | 10ea        | —           |       |      |        |   |
|   | 40 oz    | 35      | 0ea         | —           |       |      |        |   |
|   | 80 oz    | 68      | 0ea         | —           |       |      |        |   |
| <b>Fields</b> (462 Field)<br>shave stick ..                                 | 5        | 8       | 1           | 5           | 9     |      |        |   |
| <b>Flawless</b> (256 CPL)<br>cream ..                                       | 32       | 9       | 8           | 2½          | 4     | 6    |        |   |
| <b>Flormeige</b> (1254 UCS)<br>perfume                                      |          |         |             |             |       |      |        |   |
| Fetiche animals ..  | 631,400  | 38      | 0           | 9           | 6     | 5    | 6      |   |
| floral carded ..  | 631,800  | 33      | 0           | 8           | 3     | 4    | 11     |   |
| flower ..   | 631,500  | 72      | 0           | 18          | 0     | 10   | 6      |   |
| <b>Focus</b> (1242 Toni)<br>extra ..  | ..       | 27      | 7½          | 6           | 11    | 3    | 11     |   |
| hair spray ..   | ..       | 62      | 11          | 16          | 9     | 8    | 11     |   |
| <b>Forster's</b> (561 HF)<br>vaporising outfit ..                           | 70       | 0       | —           |             |       |      |        |   |
| <b>Frador</b> (107 BH&L)  | 17       | 5       | 3           | 11          | 2     | 6    |        |   |
|   | 21       | 3       | 5           | 4           | 3     | 7    |        |   |
| <b>Framomycin</b> (324 Crookes)<br>feed additive ..                         | 1lb      | 31      | 0ea         | —           | 46    | 6    | TSVSO  |   |
|   | 3lb      | 84      | 0ea         | —           | 126   | 0    | TSVSO  |   |
| <b>Fullers</b> (1246 TP&T)<br>celery pills ..                               | 480      | 120     | 0           | 30          | 0     | 18   | 0      |   |
| <b>Furadantin</b> (1153 SKF)<br>suspension ..                               | 4 fl oz  | 111     | 0           | —           | 13    | 10½  |        |   |
|   | 80 fl oz | 187     | 7ea         | —           |       |      |        |   |
| tablets 50 mgm ..   | 100      | 57      | 10ea        | —           | 86    | 9    |        |   |
|   | 1000     | 531     | 0ea         | —           |       |      |        |   |
| 100 mgm ..  | 100      | 109     | 10ea        | —           | 164   | 9    |        |   |
|   | 1000     | 1008    | 3ea         | —           |       |      |        |   |
| <b>Gale's</b> (449 JF)<br>honey set ..                                      | ½ lb     | 19      | 2           | —           | 1     | 11   |        |   |
|   | 1 lb     | 31      | 8           | —           | 3     | 2    |        |   |
| clear ..  | ½ lb     | 19      | 2           | —           | 1     | 11   |        |   |
|   | 1 lb     | 31      | 8           | —           | 3     | 2    |        |   |
| four leaf clover ..   | 1 lb     | 35      | 0           | —           | 3     | 6    |        |   |
| <b>Gedeon Richter</b> (499 Richter)<br>hormone cream ..                     | 1 oz     | 36      | 0           | 9           | 0     | 5    | 3      |   |
|   | 64       | 0       | 16          | 0           | 9     | 4    |        |   |



| Product Name (CS)                     |                                | Quantity          |                   | Unit      |           | Price          |                      | Stock |      | Sales |  | Stock |  | 171-80 |  | 845 |  | 6 |  | 206 |  | 0 |  | 126 |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------|--------------------------------|-------------------|-------------------|-----------|-----------|----------------|----------------------|-------|------|-------|--|-------|--|--------|--|-----|--|---|--|-----|--|---|--|-----|--|--|--|--|--|--|--|--|--|--|--|
|                                       |                                |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Neuva Maja (317 CS)</b>            | cologne                        | ..                | 1 oz              | 7         | 3ea       | 1              | 9 <sup>1</sup> ea13  | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 1 <sup>1</sup> oz | 11        | 0ea       | 2              | 9ea20                | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 3 <sup>1</sup> oz | 18        | 6ea       | 4              | 7 <sup>1</sup> ea33  | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | perfume                        | ..                | 1/7 oz            | 10        | 3ea       | 2              | 6 <sup>1</sup> ea19  | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 2 <sup>1</sup> oz | 20        | 9ea       | 5              | 2 <sup>1</sup> ea37  | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 2 <sup>1</sup> oz | 35        | 9ea       | 8              | 11 <sup>1</sup> ea65 | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 1 oz              | 47        | 6ea       | 11             | 10 <sup>1</sup> ea67 | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 1 <sup>1</sup> oz | 65        | 0ea       | 16             | 3ea119               | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Newcadin (518 Glaxo)</b>           | vaccine (vet)                  | ..                | 50 mils           | 12        | 6ea       | —              | 15                   | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 500 mils          | 112       | 6ea       | —              | 150                  | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>New De Witt's (372 De Witt)</b>    | pills                          | ..                | ..                | 17        | 4         | 4              | 3                    | 2     | 4    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 35                | 6         | 8         | 8              | 4                    | 9     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 56                | 3         | 13        | 9              | 7                    | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>New Tress (525 Golden)</b>         | wave set                       | ..                | 20                | 0         | 5         | 0              | 2                    | 11    |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 12                | 6         | 3         | 2              | 1                    | 10    |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nicopyron (507 GE)</b>             | suppositories                  | ..                | 6                 | 85        | 0         | —              | 10                   | 7     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 50                | 622       | 0         | —              | 77                   | 9     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | tablets                        | ..                | 20                | 85        | 0         | —              | 10                   | 7     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 50                | 163       | 0         | —              | 20                   | 4     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 250               | 792       | 0         | —              | 99                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 1000              | 3038      | 3         | —              | 379                  | 9     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nilodor (1474 NRA)</b>             | air freshener                  | ..                | ..                | 92        | 0         | —              | 11                   | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nitrocine (830 Medo)</b>           | capsules                       | ..                | 12                | 16        | 0         | —              | 2                    | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nobecutane (436 Evans)</b>         | plastic dressing               | 50 mils           | 9                 | 0ea       | —         | 13             | 6                    |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | spray                          | ..                | 100 mils          | 15        | 0ea       | —              | 22                   | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 300 mils          | 24        | 0ea       | —              | 36                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nu-Cot (810 Maw)</b>               | wool                           | ..                | 8                 | 6         | —         | 1              | 0                    |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nucta (1192 SGD)</b>               | hair sprays                    | ..                | 6 oz              | 36        | 0         | 9              | 0                    | 5     | 3    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 16 oz             | 64        | 0         | 16             | 0                    | 9     | 6    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nuion (1037 Reckitt)</b>           | shampoo Bonnie                 | ..                | A                 | 25        | 8         | 6              | 3                    | 3     | 6    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nu-San B (1106 S)</b>              | hand cream                     | ..                | ..                | 10        | 28        | 0              | —                    | 3     | 6    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | dressings                      | ..                | ..                | 50        | 108       | 0              | —                    | 13    | 6    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nu-Soft (810 Maw)</b>              | strip 6 in x 6 yd              | ..                | ..                | 16        | 0ea       | —              | 24                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | tissues (65)                   | ..                | ..                | 8         | 0         | —              | 1                    | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | (175)                          | ..                | ..                | 20        | 0         | —              | 2                    | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | toilet rolls                   | ..                | ..                | 8         | 5         | —              | 1                    | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nutrasol (324 Crookes)</b>         | 1 oz                           | 26                | 0                 | —         | 3         | 3              |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | box of 12 bottles              | 24                | 0                 | —         | 36        | 0              |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Nylax (175 BCP)</b>                | tablets                        | ..                | ..                | 20's      |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Oestroform (179 BDH)</b>           | aqueous oestradiol benzoate BP |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | 1 mgm 1 ml ampoules            | packs of 6 and 25 |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Orastrep (378 Dista)</b>           | suspension                     | ..                | 50 mils           | 86        | 0         | —              | 10                   | 9     | ts4B |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 500 mils          | 56        | 8ea       | —              | 65                   | 0     | ts4B |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | tablets                        | ..                | 25                | 96        | 0         | —              | 12                   | 0     | ts4B |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 100               | 31        | 4ea       | —              | 47                   | 0     | ts4B |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 500               | 122       | 6ea       | —              | 163                  | 9     | ts4B |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Or-Lem (918 Orlém)</b>             | blackcurrant syrup             | 12 oz             | 17                | 10        | 2         | 8              | 2                    | 3     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 26 oz             | 28        | 8         | 4              | 4                    | 3     | 6    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | Surreal whole orange           | 26 oz             | 20                | 10        | 3         | 2              | 2                    | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Ornimed (718 LAB)</b>              | bird seeds                     |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Ortrivine (262 CIBA)</b>           | adult solution 0.1%            |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | nebuliser drops                | 40                | 0                 | 10        | 0         | 5              | 10                   |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | paediatric solution drops      | 40                | 0                 | 10        | 0         | 5              | 10                   |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | 0.05%                          | 36                | 0                 | 9         | 0         | 5              | 3                    |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Otto of flowers (1070 Windsor)</b> | whole range                    |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Owbridges (925 Owbridge)</b>       | new formula                    | ..                | ..                | 19        | 6         | 4              | 10 <sup>1</sup>      | 2     | 8    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 34                | 2         | 8         | 6 <sup>1</sup> | 4                    | 7     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Pacatal (1310 WW)</b>              | (distributors 776 Loveridge)   |                   |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Paedo-Sed (466 FF)</b>             | childrens sedative             | sachet 12         | 36                | 0         | 9         | 0              | 4                    | 9     | †    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | 20 oz                          | 12                | 6ea               | 3         | 1ea       | —              |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Pai (438 ER)</b>                   | injector blades                | ..                | 5                 | 28        | 0         | 7              | 0                    | 4     | 0    |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       | stainless steel                | ..                | ..                | (12 mags) | (12 mags) |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Palaprin (187 BS)</b>              | tablets                        | ..                | 30                | 54        | 0         | —              | 5                    | 9     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 250               | 35        | 6ea       | —              | 45                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Pancrex (930 P&amp;B)</b>          | powder                         | ..                | 100 gm            | 6         | 0ea       | —              | 9                    | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 500 gm            | 25        | 0ea       | —              | 37                   | 6     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 1000 gm           | 48        | 0ea       | —              | 72                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Pancrex V (930 P&amp;B)</b>        | capsules                       | ..                | 100               | 12        | 0ea       | —              | 18                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 250               | 28        | 0ea       | —              | 42                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
|                                       |                                |                   | 500               | 54        | 0ea       | —              | 81                   | 0     |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |
| <b>Paragen (54 Antigen)</b>           | tablets                        | 0.5 gm            |                   |           |           |                |                      |       |      |       |  |       |  |        |  |     |  |   |  |     |  |   |  |     |  |  |  |  |  |  |  |  |  |  |  |

|                              |  |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|------------------------------|--|------------------------|--------|-------|-----------|----|--------------------------|--------------------------------|------------------------------|----------|------------|--------|------|-----|--|
| Ribena (103 BF)              | blackcurrant drink                       | 18 oz                  | 43 11  | 6 7½  | 5 3*      |    | dp 250                   | 972 0                          | —                            | 108 0    | †          |        |      |     |  |
| *Includes 3d for container   |  |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
| Richpine (499 Richter)       |  | 4 oz                   | 36 0   | 9 0   | 5 3       |    |                          |                                |                              |          |            |        |      |     |  |
|                              |  | 8 oz                   | 64 0   | 16 0  | 9 4       |    |                          |                                |                              |          |            |        |      |     |  |
| Rinoxin (506 Gerhardt)       | concentrate (all sizes)                  | ..                     | ..     | ..    | ..        | .. | Swan Lake (893 Nicholas) | 972 0                          | —                            | 108 0    | †          |        |      |     |  |
|                              | readimix (all sizes)                     | ..                     | ..     | ..    | ..        | .. | talcum..                 | 13 2                           | 3 8                          | 1 11     |            |        |      |     |  |
| Ronson (1079 Ronson)         | electric toothbrush                      | ..                     | 78 9ea | 17    | 4ca 128 0 |    | Sweet Sue (1412 Jackel)  | ..                             | 17 0                         | 4 8      | 2 8        |        |      |     |  |
| Rovamycin (971 PSMB)         | granules for syrup                       | 120 mils               | 8 10ea | —     | 13 3      | TS | perfumed sachets         | ..                             | 15 6                         | 3 10     | 2 6        |        |      |     |  |
| Royal Sweden (1412 Jackel)   |  |                        |        |       |           |    | Syrtussar (61 APC)       | ..                             | 4 oz                         | 7 0ea    | 1 9ca 12 3 | †      |      |     |  |
| Delete                       |  |                        | 15216  |       |           |    | syrup..                  | ..                             |                              |          |            |        |      |     |  |
| Delete                       |  |                        | 15261  |       |           |    | Tetralysal (478 Fraser)  | ..                             | 16                           | 17 7ea   | — 26 4     | TS     |      |     |  |
| Delete                       |  |                        | 1760   |       |           |    | capsules 150 mgm         | ..                             | 100                          | 105 4ea  | — 157 11   | TS     |      |     |  |
| Delete                       |  |                        | 1984   |       |           |    |                          | 1000                           | 1016 3ea                     | — 1424 3 | TS         |        |      |     |  |
| Delete                       |  |                        | 594    |       |           |    | Injection                | ..                             | 3                            | 4ea      | — 5 0      | TS     |      |     |  |
| Delete                       |  |                        | 496    |       |           |    | Thermona (1154 S&N)      |                                |                              |          |            |        |      |     |  |
| parent mirror set            |  |                        |        |       |           |    | liniment                 | ..                             | 24 0                         | 6 0      | 3 8        |        |      |     |  |
| Kontur bristle               | ..                                       | 15201                  | 162 0  | 40 6  | 23 11     |    | Thermos (1226 Thermos)   | vacuum flask refills           |                              |          |            |        |      |     |  |
|                              |  | 15202                  | 192 0  | 48 0  | 27 11     |    | 19F & 77F                |                                |                              |          |            |        |      |     |  |
|                              |  | 15206                  | 252 0  | 63 0  | 37 6      |    | jugs ..                  | ..                             | 348                          | ..       | 63 6       |        |      |     |  |
|                              |  | 15223                  | 192 0  | 48 0  | 27 11     |    | 46/1                     | ..                             | ..                           | ..       | 50 9       |        |      |     |  |
| Royal Sweden...              | ..                                       | 15265                  | 112 0  | 28 0  | 16 6      |    | 46/2                     | ..                             | ..                           | ..       | 58 0       |        |      |     |  |
| Rubilex (466 FF)             |  |                        |        |       |           |    | tray set ..              | ..                             | 54Q                          | ..       | 81 9       |        |      |     |  |
| Insert                       | Rubilex (466 FF) prices unchanged        |                        |        |       |           |    | 45 & 45Q                 | ..                             |                              |          |            |        |      |     |  |
| Sanatogen (502 Genatosan)    | selected multivitamins                   | 30                     | 56 0   | —     | 7 0       |    | jug refill ..            | ..                             | J/1F                         | ..       | 15 6       |        |      |     |  |
|                              |  | 60                     | 104 0  | —     | 13 0      |    | J/2F                     | ..                             | ..                           | ..       | 20 0       |        |      |     |  |
| Insert                       | Sanescol (878 Napp)                      |                        |        |       |           |    | 22F, 140QF, 54F          |                                |                              |          |            |        |      |     |  |
| Savlon (649 ICI)             |  |                        |        |       |           |    | Throats (64 AW)          |                                |                              |          |            |        |      |     |  |
| lozenges ..                  | ..                                       | 12                     | 13 9   | 3 5   | 2 0†      |    | blackcurrant ..          | ..                             | 3 10                         | 11       | 6          |        |      |     |  |
| Scan (31 AP)                 |  |                        |        |       |           |    | lemon, honey and menthol | ..                             | 3 10                         | 11       | 6          |        |      |     |  |
|                              | tube ..                                  | 13 10                  | 3 5½   | 2 1   |           |    | Thylin (1320 WP)         | tablets 250 mgm                | ..                           | 100      | 30 0ea     | — 45 0 |      |     |  |
|                              | bottle ..                                | 23 6                   | 5 10½  | 3 6   |           |    | Deletix (971 PSMB)       |                                |                              |          |            |        |      |     |  |
| Scotties (153 BSC)           |  |                        |        |       |           |    | Insert                   | Tixylix (971 PSMB) prices same |                              |          |            |        |      |     |  |
| 50 two ply regular           | ..                                       | 26 1                   | —      | 1 0   |           |    | Together (462 Field)     |                                |                              |          |            |        |      |     |  |
|                              | (3 doz.)                                 |                        |        |       |           |    | cologne ..               | ..                             | 58 3                         | 14 6     | 8 6        |        |      |     |  |
| 100 two ply                  | ..                                       | 47 5                   | —      | 1 9   |           |    | perfume ..               | ..                             | 48 0                         | 12 0     | 7 0        |        |      |     |  |
|                              | (3 doz.)                                 |                        |        |       |           |    | satin talc ..            | ..                             | 32 8                         | 8 2      | 4 9        |        |      |     |  |
| 150 two ply economy          | ..                                       | 45 1                   | —      | 2 6   |           |    | Trafuril (262 CIBA)      | cream 20 gm                    | single                       | 2 0ea    | — 3 0      |        |      |     |  |
|                              | (2 doz.)                                 |                        |        |       |           |    |                          | 12                             | 20 0ea                       | —        | 3 0        |        |      |     |  |
| 200 two ply family           | ..                                       | 42 8                   | —      | 3 2   |           |    | Tremimon (452 FBA)       | all packs ..                   | ..                           | ..       | ..         | †s184  |      |     |  |
|                              | (1½ doz.)                                |                        |        |       |           |    | Insert                   | Tress (525 Golden)             |                              |          |            |        |      |     |  |
| Sedalby (115 Bengue)         |  |                        |        |       |           |    | Delete                   | Tricoid (818 M&B)              |                              |          |            |        |      |     |  |
|                              | dp 250                                   | 240 0                  | 60 0   | —     | †s1s4A    |    | Insert                   | film cement ..                 | 500 mils                     | 108 0    | — 13 8     |        |      |     |  |
| Insert                       | Seneschal (1124 Sen M)                   |                        |        |       |           |    | Trill (525 Golden)       | hair conditioner ..            | ..                           | 17 1     | 4 3        | 2 6    |      |     |  |
|                              | corn planes ..                           | ..                     | 22 6   | 5 7½  | 3 1       |    | Trivax (208 BW)          | ampoule 0.5 cc ..              | 1                            | 20 0     | —          | 2 6    |      |     |  |
| Senokot (1324 Westminster)   |  |                        |        |       |           |    | Tryptizol (837 MSD)      | syrup ..                       | 4 oz                         | 8 6ea    | — 12 9     | †s4B   |      |     |  |
| tablets ..                   | ..                                       | 16                     | 10 6   | —     | 1 3       |    | Tylagei (378 Dista) tube | ..                             | 26 0                         | —        | 3 3        |        |      |     |  |
| Delete                       | Senpolin (1154 S&N) liniment             |                        |        |       |           |    | Tylan (1477 Elanco)      | injectable ..                  | 250 mils                     | 20 0ea   | — 30 0     |        |      |     |  |
|                              | SH.420 (973 Pharmethicals)               |                        |        |       |           |    |                          |                                | 500 mils                     | 39 2ea   | — 58 9     |        |      |     |  |
|                              | tablets 10 mgm ..                        | 20                     | 24 0ea | —     | †s4B      |    |                          |                                | soluble ..                   | 82 2ea   | — 123 3    |        |      |     |  |
| Show Girl (1478 SBP)         | cologne deodorant ..                     | 6 oz                   | 26 5   | 6 7   | 4 11      |    |                          |                                | 100 gm                       | 157 2ea  | — 235 9    |        |      |     |  |
|                              | hair spray ..                            | 8 oz                   | 30 9½  | 7 2½  | 5 11      |    | Tyzanol (583 HP)         | spray pack ..                  | ..                           | 32 0     | —          | 4 0    |      |     |  |
| Siestol (859 Moore)          | capsules ..                              | 18                     | 22 0   | 5 6   | 3 3       |    | Uracil (1263 Upjohn)     | capsules 1 mgm ..              | ..                           | 56 8ea   | —          | —      | †s4A |     |  |
| Solufin (673 J of H)         | developer ..                             | 250 mils               | 40 0   | —     | 5 0       |    | Insert                   | Urolucosil (1310 WW)           | (distributors 776 Loveridge) |          |            |        |      |     |  |
|                              | 2½ litre                                 | 20 0ea                 | —      | 30 0  |           |    | Valium (1074 Roche)      | tablets 2 mgm ..               | ..                           | 16 8ea   | — 25 0     | †s4B   |      |     |  |
| Somilan (179 BDH)            | tablets ..                               | ..                     | 30     | 78 0  | —         |    |                          | 500                            | 66 8ea                       | — 100 0  | †s4B       |        |      |     |  |
|                              | 500                                      | 92 6ea                 | —      | 138 9 |           |    |                          | 5 mgm ..                       | 100                          | 24 0ea   | — 36 0     | †s4B   |      |     |  |
|                              |  |                        |        |       |           |    |                          | 500                            | 98 8ea                       | — 148 0  | †s4B       |        |      |     |  |
| Delete                       | Somnotil (37 Allied)                     |                        |        |       |           |    | Insert                   | Varicones (898 Northern)       | pile remedy ..               | ..       | 14 2       | 3 6½   | 2 1  |     |  |
| Delete                       | Soporal-A (37 Allied)                    |                        |        |       |           |    |                          |                                | 33 4                         | 8 4      | 5 0        |        |      |     |  |
|                              | Sorosil (878 Napp)                       |                        |        |       |           |    |                          |                                | 59 0                         | 14 9     | 8 11       |        |      |     |  |
| Insert                       | Sparklets (183 BOC)                      |                        |        |       |           |    |                          | Vaseline (256 CPL)             |                              |          |            |        |      |     |  |
|                              | syphons ..                               |                        |        |       |           |    |                          | petroleum jelly ..             |                              |          |            |        |      |     |  |
| Insert                       | stainless steel model                    | 1170 0                 | 117 0  | 139 9 |           |    |                          | yellow ..                      | .. jar                       | 10 8     | 2 8        | 1 5    |      |     |  |
| Spire (78 AS&Co)             |  |                        |        |       |           |    |                          | Velouty (379 Dlxor)            | powder cream ..              | .. jar   | 27 0       | 6 9    | 4 0  |     |  |
|                              | olive oil ..                             | 2½ oz                  | 16 6   | —     | —         |    |                          | Delete                         | Veltis (115 Bengue)          | cream .. | .. jar     | 20 6   | 5 1½ | 3 1 |  |
|                              |  | 5 oz                   | 28 6   | —     | —         |    |                          | perfumed ..                    | 40 gm                        | 18 0     | 4 6        | 2 6    |      |     |  |
|                              |  | 10 oz                  | 54 0   | —     | —         |    |                          |                                | 70 gm                        | 25 0     | 6 3        | 3 6    |      |     |  |
| Delete                       | Spray 'N Stay (256 CPL)                  | hairspray economy size |        |       |           |    |                          | unperfumed ..                  | 40 gm                        | 18 0     | 4 6        | 2 8    |      |     |  |
|                              | 16 oz ..                                 | 45 5                   | 11 5   | 12 8  |           |    |                          |                                | 70 gm                        | 25 0     | 6 3        | 3 6    |      |     |  |
| Stabilin V-K (147 Boots)     |  |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | syrup, granules for 60 mils              | 4 4ea                  | —      | 8 8   | TS        |    |                          |                                |                              |          |            |        |      |     |  |
| Stamino (1112 SBF)           | dog food ..                              | 18 6                   | —      | 1 11½ |           |    |                          |                                |                              |          |            |        |      |     |  |
| Ster-a-Fix (1037 Reckitt)    | economy ..                               | 15 9                   | —      | 1 9   |           |    |                          |                                |                              |          |            |        |      |     |  |
| Suba-Seal (479 WF)           | feeders ..                               |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | stopper ..                               | 3A3-29                 | 2 8    | —     | 4         |    |                          |                                |                              |          |            |        |      |     |  |
| Sucron (67 Ashe)             | ..                                       | 19 2                   | —      | 1 11  |           |    |                          |                                |                              |          |            |        |      |     |  |
| 8udden Veil-Lift (160 Bliss) | facial mask (8 treatments)               | 36 0ea                 | 9 0ea  | 83 0  |           |    |                          |                                |                              |          |            |        |      |     |  |
| Delete                       | Suite 16 (Pierre Cardin (366 Dendron))   |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
| Insert                       | Suite 18 (Pierre Cardin (1475 Concorde)) |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | Sunbeam (1199 Sunbeam)                   |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | hairdryer ..                             | —                      | —      | 168 0 |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | Shavenmaster 190-250 v. XS               | ..                     | ..     | 152 6 |           |    |                          |                                |                              |          |            |        |      |     |  |
| 8unset (1343 DW)             | TR III Speedlight flash unit ..          | ..                     | ..     | 195 6 |           |    |                          |                                |                              |          |            |        |      |     |  |
| 8ure 8hield (549 Guest)      | pastilles ..                             |                        |        |       |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | blackcurrant & glycerine ..              | 13 4                   | 2 0    | 1 10  |           |    |                          |                                |                              |          |            |        |      |     |  |
|                              | Gee's B.P.C. ..                          | 12 6                   | —      | 1 7   | †         |    |                          |                                |                              |          |            |        |      |     |  |
|                              | glycerine, lemon & honey ..              | 13 4                   | 2 0    | 1 10  |           |    |                          |                                |                              |          |            |        |      |     |  |
| 8ustac (972 Pharmax)         | tablets gr ½ ..                          | dp 30                  | 102 0  | —     | 11 4      | †  |                          |                                |                              |          |            |        |      |     |  |
|                              | dp 250                                   | 780 0                  | —      | 86 8  | †         |    |                          |                                |                              |          |            |        |      |     |  |
|                              | gr 1½ ..                                 | dp 30                  | 120 0  | —     | 14 0      | †  |                          |                                |                              |          |            |        |      |     |  |

|   |     |     |    |     |      |   |
|---|-----|-----|----|-----|------|---|
| powder 1000 l.u. 100 doses                  | 153 | 4ea | —  | 230 | 0    |   |
| sinclinate tablets 50 l.u. 500              | 66  | 8ea | —  | 100 | 0    |   |
| 1000  | 133 | 4ea | —  | 200 | 0    |   |
| 200 i.u. 50                                 | 28  | 4ea | —  | 42  | 6    |   |
| 100   | 52  | 4ea | —  | 78  | 6    |   |
| 500   | 233 | 4ea | —  | 380 | 0    |   |
| 1000  | 493 | 4ea | —  | 740 | 0    |   |
| <b>Vitacoat (1284 V)</b>                    |     |     |    |     |      |   |
| <del>delete</del> Vitrex                    |     |     |    |     |      |   |
| <i>Insert</i> Vitex                         | ..  | 60  | 0  | 15  | 0    |   |
| <b>Vivacious (385 DG)</b>                   |     |     |    |     |      |   |
| bath essence ..                             | 89  | 0   | 22 | 3   | 13   | 0 |
| dusting powder .. tln                       | 57  | 0   | 14 | 3   | 8    | 6 |
| perfume .. purse                            | 89  | 0   | 22 | 3   | 13   | 0 |
| skin perfume .. 2 oz                        | 89  | 0   | 22 | 3   | 13   | 0 |
| 4 oz  | 132 | 0   | 33 | 0   | 19   | 3 |
| <b>Voigtländer (673 J of H)</b>             |     |     |    |     |      |   |
| Vito automatic 1 ..                         | —   | —   | —  | 651 | 0    |   |
| Vitoret R ..                                | —   | —   | —  | 383 | 8    |   |
| <b>Volital (718 LAB)</b>                    |     |     |    |     |      |   |
| .. 500                                      | 58  | 0ea | 14 | 6ea | 92   | 0 |
| <b>Wallis (1479 Wallis)</b>                 |     |     |    |     |      |   |
| junior aspirin tablets ..                   | 9   | 0   | 2  | 3   | 1    | 9 |
| <b>Wander (1303 Wander)</b>                 |     |     |    |     |      |   |
| diabetic chocolate                          |     |     |    |     |      |   |
| milk assortment ..                          | 30  | 5   | 4  | 6   | 3    | 9 |
| <b>Warmabed (1308 Warmabed)</b>             |     |     |    |     |      |   |
| electric blanket                            |     |     |    |     |      |   |
| "De Luxe" single 60 x 30                    | ..  | ..  | .. | 157 | 9    |   |
| double 60 x 48                              | ..  | ..  | .. | 232 | 0    |   |
| three heat single 60 x 30                   | ..  | ..  | .. | 165 | 2    |   |
| double 60 x 48                              | ..  | ..  | .. | 244 | 10   |   |
| "Standard" single 60 x 30                   | ..  | ..  | .. | 113 | 8    |   |
| double                                      | ..  | ..  | .. | 157 | 7    |   |
| <b>"Golden Rest" both sizes</b>             |     |     |    |     |      |   |
| <b>Wellcome (208 BW)</b>                    |     |     |    |     |      |   |
| tetanus antitoxin                           |     |     |    |     |      |   |
| 1,500 l.u. In 1 cc .. 10                    | 194 | 0   | —  | 24  | 3    |   |
| .. .. 12                                    | —   | —   | —  | —   | —    |   |
| tetanus toxoid 0.5 cc .. 1                  | 20  | 0   | —  | 2   | 6    |   |
| tuberculin old, human T 1 cc                | 36  | 0   | —  | 4   | 6    |   |
| 5 cc  | 126 | 0   | —  | 15  | 9    |   |
| 1 ln 100 .. 1 cc                            | 36  | 0   | —  | 4   | 6    |   |
| 1 ln 1,000 .. 1 cc                          | 36  | 0   | —  | 4   | 6    |   |
| 1 ln 10,000 .. 1 cc                         | 36  | 0   | —  | 4   | 6    |   |
| <b>Wernets Dr. (1178 Stafford)</b>          |     |     |    |     |      |   |
| denture powder                              |     |     |    |     |      |   |
| .. .. 16                                    | 0   | —   | —  | 2   | 0    |   |
| <b>Williams (1113 S&amp;B)</b>              |     |     |    |     |      |   |
| shaving stick refill ..                     | 12  | 7   | 3  | 1½  | 1    | 8 |
| <b>Wydase (1352 Wyeth)</b>                  |     |     |    |     |      |   |
| ampoules 1000 iu                            |     |     |    |     |      |   |
| <b>Wyness (1338 W&amp;S)</b>                |     |     |    |     |      |   |
| .. 14                                       | 6   | 2   | 2  | 1   | 10½  |   |
| <b>Xylocaine (68 AH)</b>                    |     |     |    |     |      |   |
| eye drops 4% ..                             | 6   | 6ea | —  | 9   | 9    |   |
| gel .. tube 15 ml                           | 33  | 0   | —  | 4   | 1½   |   |
| <b>Zactirin (1352 Wyeth)</b>                |     |     |    |     |      |   |
| tablets .. ..                               | —   | —   | —  | —   | ts4B |   |
| <del>delete</del> <b>Zal (890 WC&amp;C)</b> |     |     |    |     |      |   |
| <i>Insert</i> <b>Zal (1480 Izal)</b>        |     |     |    |     |      |   |
| air freshener aerosol ..                    | 29  | 3   | —  | 3   | 3    |   |
| <del>delete</del> <b>Zo all sizes</b>       |     |     |    |     |      |   |
| <b>Zonal (54 Antigen)</b>                   |     |     |    |     |      |   |
| salt .. .. 2 oz                             | 16  | 0   | —  | 2   | 0    |   |
| <del>delete</del> <b>Zonas all sizes</b>    |     |     |    |     |      |   |

**ADDITIONS TO KEY TO SUPPLIERS**

9 Barluze = BARLUZE (PRODUCTS) LTD., 2 Lovaine Avenue, Whitley Bay, Northumberland.  
 67 C&A = CLAY & ABRAHAM (MANUFACTURING), LTD., 40 Hanover Street, Liverpool, 1.  
 76 Dilmol = DIMOL LABORATORIES LTD., 34 Ludgate Hill, London, E.C.4. Clty 6309.  
 78 Dista = DISTA PRODUCTS, LTD., Fleming Road, Speke, Liverpool 24. Hunts Cross 1271.  
 25 ELC = ESTEE LAUDER COSMETICS, LTD., 18 Davies Street, London, W.1. Hyde Park 6949.  
 78 Fraser = FRASER CHEMICALS, LTD., 88 Lewisham High Street, London, S.E.13. Lee Green 7486.  
 84 Fulford = C. E. FULFORD, LTD., Knapping Mount, West Grove Road, Harrogate, Yorks. Harrogate 69661.  
 09 Gibbs = GIBBS PEPSODENT, LTD., Hesketh House, Portman Square, London, W.1. Hunter 1200.  
 29 Gorney = GORNEY, LTD., Cross Bath Road, Bramley, Leeds, 13. Pudsey 77221.  
 97 HCL = HELENE CURTIS, LTD., New Lane, Havant, Hants. Havant 2414.  
 33 Mel P = MELDAIRE PRODUCTS, LTD., P.O. Box 2. Manchester 21.  
~~delete~~ 890 NC&C = NEWTON CHAMBERS & CO., LTD.  
 63 MR = MORPHY-RICHARDS, LTD., 50 Conduit Street, London, W.1. Whitehall 9755.  
 42 Passmills = PASSMILL (PAPER PRODUCTS), LTD., Tennyson Street, Bolton, Lancs. Bolton 27125.  
 58 PS = PERMA-SHARP, LTD., Flakefield, East Kilbride, Scotland. East Kilbride 21391.  
 114 SLL = SCOTT LABORATORIES, LTD., 521 Cambridge Heath Road, London, E.2. Shoreditch 5034.  
 124 Sen M = SENESCHAL MANUFACTURING CO., 109a Dartmouth Road, London, N.W.2. Gladstone 4187.  
 243 Topsy = TOPSY PHARMACEUTICALS LTD., Fountain Street, Oldham, Lancs. Oldham Main 3045.  
 246 TP&T = TOWER PILL AND TABLET CO., LTD., 6 Cole Street, London, S.E.1. Hop 1229.  
 254 UCS = U.C.S. (LONDON), LTD., 39 Albemarle Street, London, W.1. Hyde Park 2630.  
 469 Caron = PARFUM CARON, 2 Old Bond Street, London, W.1. Hyde Park 5110.

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| (1472 Corry) = CORRY & CO., LTD., 10 Borough High Street, London, S.E.1. Hop 3493.                            |  |  |  |  |  |
| (1474 NRA) = N.R. AGENCIES, LTD., Harcourt Road, Bexleyheath, Kent. Bexleyheath 1940.                         |  |  |  |  |  |
| (1475 Concorde) = CONCORDE PERFUMERY & COSMETICS, LTD., 94 Rickmansworth Road, Watford, Herts. Watford 29251. |  |  |  |  |  |
| (1476 AC) = ANTOLIA COMPANY, Studio Six, 5 Kensington Church Street, London, W.8. Western 9334.               |  |  |  |  |  |
| (1477 Elanco) = ELANCO PRODUCTS, LTD., Broadway House, The Broadway, London, S.W.19. Liberty 6600.            |  |  |  |  |  |
| (1478 SBP) = SHOWGIRL BEAUTY PRODUCTS, 50 Greyhound Road, London, N.15. Tottenham 0570.                       |  |  |  |  |  |
| (1479 Wallis) = WALLIS LABORATORY, LTD., Holywell Industrial Estate, Watford, Herts. Watford 21812.           |  |  |  |  |  |
| (1480 Izal) = IZAL LTD., Thorncliffe, Sheffield. Ecclesfield 3171.  |  |  |  |  |  |
| (1481 JHL) = JOSEPHINE HART, LTD., 73 Bordesley Green, Birmingham 9. Birmingham Victoria 5545.                |  |  |  |  |  |
| (1482 NP) = NATIONWIDE PHARMACEUTICALS, LTD., 7 Cleveland Gardens, London, W.2. Ambassador 4420.              |  |  |  |  |  |
| (1483 JBB) = JOHNSON BODY BELT CO., Dome Buildings, The Quadrant, Richmond, Surrey. Richmond 1053.            |  |  |  |  |  |
| (1484 PCPL) = PARAMOUNT COURT PHARMACY, LTD., 155 Tottenham Court Road, London, W.1. Euston 1089.             |  |  |  |  |  |
| (1485 Diva) = DIVA LABORATORIES (GREAT BRITAIN), LTD., 229a Shaftesbury Avenue, London, W.C.2.                |  |  |  |  |  |
| (1487 Besso) = V. S. BESSO & CO., LTD., 61 George Street, Manchester, 1. Central 8683.                        |  |  |  |  |  |

**THIS WEEK'S CHANGES**

NEW and altered entries notified for the first time

A=Advanced. R=Reduced.

Entries new this week are marked thus: — ●

|   |      |      |     |     |           |
|---|------|------|-----|-----|-----------|
| <b>Alberto-Culver (1437 ACC)</b>            |      |      |     |     |           |
| ● shampoo bottle .. 3 oz                    | 24   | 7    | 6   | 2   | 3 11      |
| <b>A Benger's (114 Benger)</b>              |      |      |     |     |           |
| food .. .. 8 oz                             | 36   | 0    | —   | —   | 3 9       |
|   | 1 lb | 62   | 6   | —   | 6 6       |
|   | 2 lb | 106  | 0   | —   | 11 0      |
|   | 5 lb | 192  | 0   | —   | 20 0      |
| <b>A Blue Velvet (1164 SSL)</b>             |      |      |     |     |           |
| hand lotion .. .. 264                       | 12   | 0    | 3   | 0   | 1 9       |
|   | 265  | 18   | 10  | 4   | 9 2 9     |
| <b>A Breathe (885 N&amp;P)</b>              |      |      |     |     |           |
| medicated inhalant cream .. ..              | 22   | 6    | 5   | 7½  | 3 0       |
| <b>Cor. Gelbenin (1393 BRL)</b>             |      |      |     |     |           |
| vials 1 gm .. .. 25                         | 325  | 0ea  | —   | 487 | 6 TS      |
|   | 100  | 1300 | 0ea | —   | 1950 0 TS |
| <b>Insert Cornol (898 Northern)</b>         |      |      |     |     |           |
| <b>Dor (563 Hampshire)</b>                  |      |      |     |     |           |
| A deodorant aerosol .. .. 31                | 4    | 7    | 9   | 4   | 3         |
| <b>Dorminal (147 Boots)</b>                 |      |      |     |     |           |
| tablets gr 3 .. .. 500                      | 4    | 0ea  | —   | 6   | 0 TS      |
| <b>Econopen-V (1320 WP)</b>                 |      |      |     |     |           |
| suspension .. 60 mils                       | 18   | 6ea  | —   | 27  | 9 TS      |
| tablets 125 mgm .. 100                      | 36   | 6ea  | —   | 54  | 9 TS      |
| 250 mgm .. 100                              | —    | —    | —   | —   | —         |
| <b>Ednasan (659 HI)</b>                     |      |      |     |     |           |
| tablets vit. B .. .. 40                     | 0    | —    | —   | 3   | 6         |
| <b>Emko (506 Gerhardt)</b>                  |      |      |     |     |           |
| vaginal foam kit .. .. 13                   | 10ea | —    | —   | 18  | 6         |
| refill .. .. 10                             | 1ea  | —    | —   | 13  | 6         |
| <b>Insert Eylure (443 Eylure)</b>           |      |      |     |     |           |
| Erida                                       |      |      |     |     |           |
| eyelashes hair, close and natural ..        | 140  | 0    | —   | 17  | 6         |
| real fur ..                                 | 140  | 0    | —   | 17  | 6         |
| fingernails nylon ..                        | 148  | 0    | —   | 18  | 6         |
| fix nailfix ..                              | 20   | 0    | —   | 2   | 6         |
| remover ..                                  | 28   | 0    | —   | 3   | 6         |
| lipliner pencils ..                         | 24   | 0    | 6   | 0   | 3 6       |
| Liqua Glo ..                                | 72   | 0    | 18  | 0   | 10 6      |
| sable brush sizes 1-12 (set) ..             | 53   | 0ea  | —   | 79  | 9         |
| <b>Freezheat (191 BVF) vacuum ware jugs</b> |      |      |     |     |           |
| A Standard 16 oz stopper-vac J69 ..         | 6    | 7ea  | 8ea | 9   | 6         |
| <b>Delete 23-36 oz VA136</b>                |      |      |     |     |           |
| <b>Griptight (1349 LW)</b>                  |      |      |     |     |           |
| soother deluxe .. .. 4                      | 4    | 4    | —   | —   | 7         |
| all rubber .. .. 9                          | 0    | —    | —   | 1   | 3         |
| <b>Harmony (509 Gibbs)</b>                  |      |      |     |     |           |
| tube .. .. 22                               | 6    | 5    | 6   | 3   | 3         |
| <b>Johnson's (672 Johnson)</b>              |      |      |     |     |           |
| cotton wool household .. .. 362             | 10   | 3    | 2   | 7   | 1 6       |
|   | 368  | 17   | 2   | 4   | 3 2 6     |
|   | 363  | 30   | 11  | 7   | 9 4 6     |
|   | 384  | 41   | 2   | 10  | 4 6 0     |
|   | 364  | 12   | 0   | 3   | 0 1 9     |
|   | 370a | 75   | 6   | 18  | 11 11 0   |
| fainly pack .. .. 268                       | 17   | 2    | 4   | 3   | 2 6       |
| liquid .. .. 267                            | 30   | 11   | 7   | 9   | 4 6       |
| <b>Pernione (576 PH)</b>                    |      |      |     |     |           |
| ointment .. .. 1 oz                         | 22   | 0    | 5   | 6   | 3 3       |
| <b>A Phortinea (576 PH)</b>                 |      |      |     |     |           |
| cream .. .. 60                              | 0    | 15   | 0   | 8   | 9         |
| liquid .. .. 15 mils                        | 60   | 0    | 15  | 0   | 8 9       |

|                                       |                    |        |     |     |     |     |    |    |
|---------------------------------------|--------------------|--------|-----|-----|-----|-----|----|----|
| ● <b>Procol</b> (835 M&J)             | Spansule capsules  | 8      | 40  | 6   | —   | 4   | 6  |    |
| Insert <b>Quinphos</b> (898 Northern) | liquid or tablets  | small  | 12  | 3   | 3   | 0   | 1  | 10 |
|                                       |                    | medium | 30  | 9   | 7   | 8   | 4  | 5  |
| ● <b>Rodine</b> (1047 Rentokil)       | warfarin mousebait |        |     |     |     |     |    |    |
| ● <b>Rat bait</b>                     | sachet             |        |     |     |     | 1   | 0  |    |
| ● <b>Rondomycin</b> (583 HP)          | twin sachet        |        |     |     |     | 2   | 0  |    |
|                                       | capsules 150 mgm   | ...    | 16  |     |     |     |    |    |
|                                       |                    | 100    | 22  | 8ea | —   | 34  | 0  | TS |
| ● <b>Schlank Schlank</b> (529 Gorney) |                    | 136    | 0ea |     |     | 204 | 0  | TS |
| ● <b>Scholl's (Dr.)</b> (1108 SMC)    |                    | 7      | 0ea | 1   | 9ea | 12  | 3  |    |
| ● <b>knee warmer</b>                  |                    |        |     |     |     |     |    |    |
| ● <b>Shostakovsky</b> (1488 LC&C)     | balsam             | ...    | 20  | 8ea | 5   | 2ea | 36 | 0  |
| Insert <b>Tyroco</b> (312 AC)         | lozenges           | ...    | 12  | 12  | 6   | —   | —  | †  |
| ● <b>Veen</b> (529 Gorney)            |                    |        | 9   | 0ea | 2   | 3ea | 15 | 9  |
| ● <b>Vichy</b> (653 I&R)              |                    |        |     |     |     |     |    |    |
| ● <b>pastilles</b>                    |                    |        | 5   | 0   | 1   | 3   | 1  | 0  |
| ● <b>Victor</b> (1333 Wigmore)        |                    |        |     |     |     |     |    |    |
|                                       | after shave cream  |        |     | 37  | 0   | 9   | 3  | 5  |
|                                       | lotion             | 60 cc  | 65  | 0   | 16  | 3   | 9  | 6  |
|                                       |                    | 110 cc | 105 | 0   | 26  | 3   | 15 | 6  |

|                                  |                       |     |    |    |    |    |    |
|----------------------------------|-----------------------|-----|----|----|----|----|----|
| Acqua di Selva cologne           | 50 cc                 | 85  | 0  | 21 | 3  | 12 | 6  |
|                                  | 110 cc                | 134 | 0  | 33 | 8  | 19 | 6  |
|                                  | 220 cc                |     |    |    |    | 35 | 0  |
| ● <b>Vittel Grande</b> (653 I&R) | deodorant stick       | ..  | 65 | 0  | 16 | 3  | 9  |
| ● <b>Vittel Hepar</b> (653 I&R)  | hair cream            | ..  | 37 | 0  | 9  | 3  | 5  |
|                                  | pre-shave             | ..  | 65 | 0  | 16 | 3  | 9  |
|                                  | shave cream brushless | ..  | 37 | 0  | 9  | 3  | 5  |
|                                  | lather                | ..  | 37 | 0  | 9  | 3  | 5  |
|                                  | talcum                | ..  | 65 | 0  | 16 | 3  | 9  |
|                                  |                       |     | 33 | 0  | 4  | 10 | 3  |
|                                  |                       |     | 33 | 0  | 4  | 10 | 11 |

#### AMENDMENTS AND ADDITIONS TO KEY TO SUPPLIER

(659 HI)=HARRY ISAACS (CHEMISTS), LTD., 23 Cyncoed Road, Cardiff. Cardiff 36968.  
 (1333 Wigmore)=WIGMORE PRODUCTS, LTD., 116 Wigmore Street, London, W.1. Hunter 1434.  
 (1437 ACC)=ALBERTO-CULVER CO., 44 Newington Causeway, London S.E.1. Hop 1623.  
 (1488 LC&C)=LEOPOLD CHARLES & CO., LTD., 27 Whitfield Street, London, W.1. Langham 3426.



## INFORMATION DEPARTMENT

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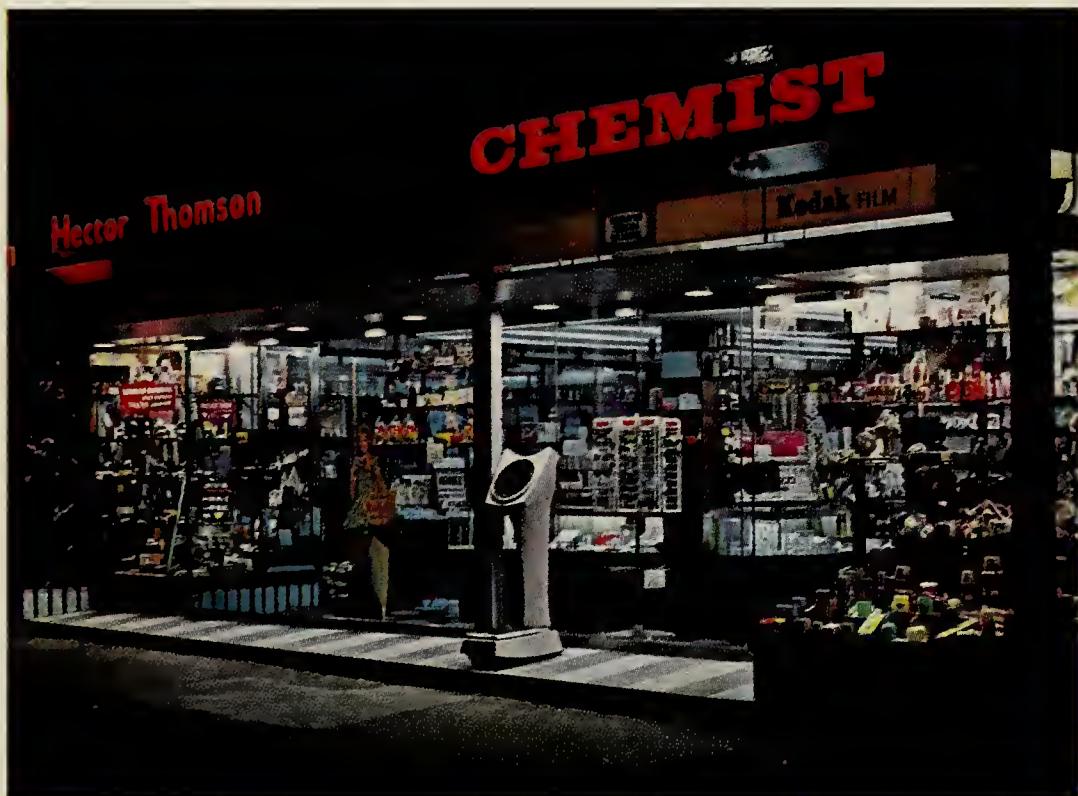


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